UNITED STATES DEPARTMENT OF THE INTERIOR

SURFACE WATER SUPPLY *of the* UNITED STATES 1927

PART III
OHIO RIVER BASIN

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 643

UNITED STATES DEPARTMENT OF THE INTERIOR
RAY LYMAN WILBUR, Secretary
GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

Water-Supply Paper 643

SURFACE WATER SUPPLY *of the* UNITED STATES

1927

PART III

OHIO RIVER BASIN

NATHAN C. GROVER, Chief Hydraulic Engineer
A. W. HARRINGTON, A. H. HORTON, LASLEY LEE, J. J. DIRZULAITIS,
H. E. GROSBACH, W. R. KING, and E. D. BURCHARD, District Engineers

Prepared in cooperation with the
STATES OF NEW YORK, WEST VIRGINIA, OHIO, VIRGINIA
ILLINOIS, TENNESSEE, NORTH CAROLINA, AND ALABAMA

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1931

For sale by the Superintendent of Documents, Washington, D. C. - - - - Price 35 cents

CONTENTS

ILLUSTRATION

SURFACE WATER SUPPLY OF OHIO RIVER BASIN, 1927

AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1927.

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

Provided, That this officer [the director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

For gaging the streams and determining the water supply of the United States, and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

Annual appropriations for the fiscal years ending June 30, 1895–1928

1895	$12,500.00	1907	$150,000.00	1921–1923	$180,000.00
1896	24,500.00	1908–1910	100,000.00	1924–1925	170,000.00
1897–1899	50,000.00	1911–1917	150,000.00	1926	165,000.00
1900	70,000.00	1918	175,000.00	1927	151,000.00
1901–1902	100,000.00	1919	148,244.10	1928	147,000.00
1903–1906	200,000.00	1920	175,000.00		

In the execution of the work many private and State organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 10.

Measurements of stream flow have been made at about 5,330 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1927, 1,750 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points. In connection with this work data were also collected in

regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

The volume of water flowing in a stream—the "run-off" or "discharge"—is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups—(1) those that represent a rate of flow, as second-feet, gallons per minute, miner's inches, and discharge in second-feet per square mile, and (2) those that represent the actual quantity of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this series of reports are second-feet, second-feet per square mile, run-off in inches, and acre-feet. They may be defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained, on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water flowing from it in a given period were uniformly distributed on the surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

An "acre-foot," equivalent to 43,560 cubic feet, is the quantity required to cover an acre to the depth of 1 foot. The term is commonly used in connection with storage for irrigation.

The following terms not in common use are here defined:

"Stage-discharge relation," an abbreviation for the term "relation of gage height to discharge."

"Control," a term used to designate the section or stretch of the channel or artificial structure below the gage which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1926, and ending September 30, 1927. At the beginning of January in most parts of the United States much of the precipitation in the preceding three months is stored in the form of snow or ice, or in ponds, lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the

end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year.

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff or chain gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of

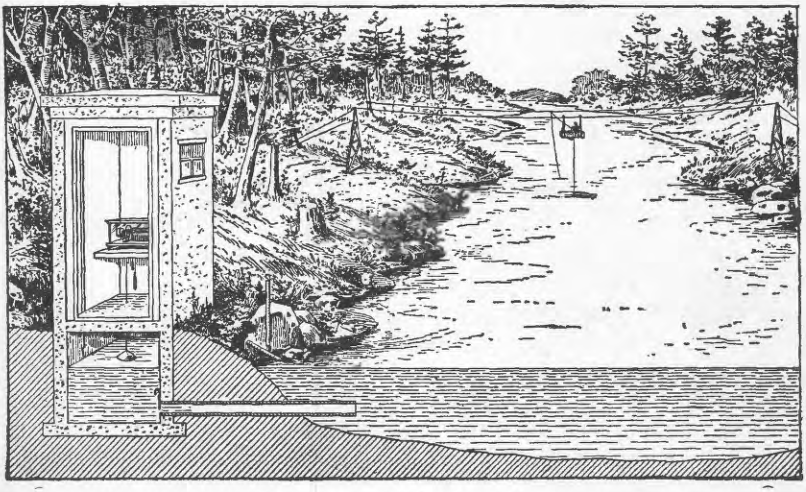

FIGURE 1.—Typical gaging station

discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

From the discharge measurements rating tables are prepared that give the discharge for any stage. The application of the daily gage heights to these rating tables gives the daily discharge from which the monthly and yearly mean discharge is computed.

The data presented for each gaging station in the area covered by this report comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that decrease the flow at the gage, artificial regulation, maximum and minimum recorded stages, and the accuracy of the records. The maximum discharge given under "Extremes" does not represent the

crest discharge unless a water-stage recorder was in operation or unless a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height which may be once-daily reading or the mean of twice-daily readings of a nonrecording gage, or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanency of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of the records. "Excellent" indicates that records are accurate within 5 per cent; "good," within 10 per cent; "fair," within 15 per cent; and "poor," 20 per cent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off in inches may be subject to gross errors caused by the inclusion of large noncontributing districts in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in

inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

The tables of monthly discharge give a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must first be satisfied.

PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigations of such closely allied subjects as irrigation, water storage, water powers underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published annually in 12 parts, each part covering an area whose boundaries coincide with natural drainage features, as indicated below:

Part I. North Atlantic slope basins (St. Johns River to York River).
II. South Atlantic slope and eastern Gulf of Mexico basin (James River to the Mississippi).
III. Ohio River Basin.
IV. St. Lawrence River Basin.
V. Upper Mississippi River Basin and Hudson Bay Basins.
VI. Missouri River Basin.
VII. Lower Mississippi River Basin.
VIII. Western Gulf of Mexico basins.
IX. Colorado River Basin.
X. The Great Basin.
XI. Pacific slope basins in California.
XII. North Pacific slope basins, in three parts:
A, Pacific slope basins in Washington and upper Columbia River Basin.
B, Snake River Basin.
C, Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

2. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

3. Sets are available for consultation in the local offices of the water-resources branch of the Geological Survey, as follows:

Augusta, Me., Statehouse.
Boston, Mass., 2500 Customhouse.
Hartford, Conn., 60 Washington Street.
Albany, N. Y., 506 Broadway-Arcade Building.
Trenton, N. J., 710 Trenton Trust Building.
Charlottesville, Va., Brooks Museum, University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 210 Post Office Building.
Columbia, S. C., 810 National Loan & Exchange Bank Building.
Ocala, Fla., Federal Building.
Chattanooga Tenn., 630 Power Building.
Tuscaloosa, Ala., Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 315 Federal Building.
Lansing, Mich., M9 State Office Building.
Chicago, Ill., 1503 Consumers Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 202 Old State Capitol.
Topeka, Kans., 23 Federal Building.
Rolla, Mo., Rolla Building, School of Mines and Metallurgy.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Capitol.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 313 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, Federal Building.
Helena, Mont., 416 Power Block.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 751 Figueroa Street, room 510.
Honolulu, Hawaii, Territorial Office Building.

A list of the Geological Survey's publications may be obtained by applying to the Director, United States Geological Survey, Washington, D. C.

Stream-flow records have been obtained at about 5,330 points in the United States, and the data obtained have been published in the reports tabulated below:

Stream-flow data in reports of the United States Geological Survey

[A=Annual Report; B=Bulletin; W=Water-Supply Paper]

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1874 to September, 1890.
12th A, pt. 2	do	1874 to June 30, 1891.
13th A, pt. 3	Mean discharge in second-feet	1874 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871 to 1893)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893 and 1894.
16th A, pt. 4	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895 and 1896.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, and western United States.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906.
W 241 to 252	do	1907–8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919–20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.
W 641 to 654	do	1927.

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous measurements" at the end of each report, in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1927. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by Part III are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

Numbers of water-supply papers containing results of stream measurements, 1899–1927

[For basins included see p. 5]

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII-A	XII-B	XII-C
1899 [a]	35	[b] 35, 36	36	36	36	[c] 36, 37	37	37	[d] 37, 38	38, [e] 39	38, [f] 39	38	38	38
1900 [g]	47, [h] 48	48	48, [i] 49	49	49	49, [j] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[k] 65, 66, 75	66, 75	[k] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[b] 82, 83	83	[l] 82, 83	[k] 83, 85	84	[k] 83, 84	84	85	85	85	85	85	85
1903	97	[b] 97, 98	98	97	[k] 98, 99, [m] 100	99	[k] 98, 99	99	100	100	100	100	100	100
1904	[n] 124, [o] 125, [p] 126	[p] 126, 127	128	129	[k] 128, 130	130, [q] 131	[k] 128, 131	132	133	133, [r] 134	134	135	135	135
1905	[n] 165, [o] 166, [p] 167	[p] 167, 168	169	170	171	172	[k] 169, 178	174	175, [s] 177	176, [r] 177	177	178	178	[t] 177, 178
1906	[n] 201, [o] 202, [p] 203	[p] 203, 204	205	206	207	208	[k] 205, 209	210	211	212, [r] 213	213	214	214	214
1907–8	241	242	243	244	245	246	247	248	249	250, [r] 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, [r] 271	271	272	272	272
1910	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912	321	322	323	324	325	326	327	328	329	330	331	332–A	332–B	332–C
1913	351	352	353	354	355	356	357	358	359	360	361	362–A	362–B	362–C
1914	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919–20	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927	641	642	643	644	645	646	647	648	649	650	651	652	653	654

[a] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Monthly discharge for 1899 in Twenty-first Annual Report, Part IV.
[b] James River only.
[c] Gallatin River.
[d] Green and Gunnison Rivers and Grand River above junction with Gunnison.
[e] Mohave River only.
[f] Kings and Kern Rivers and south Pacific slope basins.
[g] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in Twenty-second Annual Report, Part IV.
[h] Wissahickon and Schuykill Rivers to James River.
[i] Scioto River.
[j] Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.
[k] Tributaries of Mississippi from east.
[l] Lake Ontario and tributaries to St. Lawrence River proper.
[m] Hudson Bay only.
[n] New England rivers only.
[o] Hudson River to Delaware River, inclusive.
[p] Susquehanna River to Yadkin River, inclusive.
[q] Platte and Kansas Rivers.
[r] Great Basin in California except Truckee and Carson River Basins.
[s] Below junction with Gila.
[t] Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

The State of New York cooperated in maintaining the station on Allegheny River at Red House, N. Y.

In West Virginia the work was done in cooperation with the State Geological Survey, Dr. I. C. White, State geologist.

In Ohio the work was done in cooperation with the Ohio Cooperative Topographic Survey, C. E. Sherman, inspector.

In Virginia the work was done in cooperation with the Virginia Geological Survey, Wilbur A. Nelson, director.

In Illinois the work was done in cooperation with the Illinois Department of Purchases and Construction, division of waterways, W. F. Mulvihill, supervisor.

In Tennessee the work was done in cooperation with the Tennessee Geological Survey, Walter F. Pond, State geologist.

In North Carolina the work was done in cooperation with the North Carolina Department of Conservation and Development, Wade H. Phillips, director.

The Alabama Geological Survey, Eugene Allen Smith, State geologist, cooperated in maintaining the station on Elk River near Elkmont, Ala.

Acknowledgment is due the Corps of Engineers, United States Army, for financial assistance in collecting records published herein, which has been furnished through the following district offices; Pittsburgh, Pa., Maj. J. J. Bain, district engineer; Huntington, W. Va., Majors H. N. Trippe and E. D. Ardery, district engineers; Nashville, Tenn., and Chattanooga, Tenn., Maj. Lewis H. Watkins, district engineer of both offices; and Florence, Ala., Capt. Hugh P. Oram, district engineer.

Financial assistance was also rendered by Water Board of Clarksburg, W. Va., Scotland G. Highland, general manager; Pulaski, Va., Highlands, N. C.; Asheville, N. C.; West Virginia Power & Transmission Co.; West Virginia Power Co.; Gauley Power Co.; Kentucky Hydroelectric Co.; Kentucky-Tennessee Light & Power Co.; Middle West Utilities Co.; Appalachian Electric Power Co.; John P. Gose; F. W. Scheidenhelm; Tennessee Power Co.; Cumberland Hydroelectric Co.; Southern Cities Power Co.; Pigeon River Power Co.; Knoxville Power Co.; and Aluminum Co. of America.

DIVISION OF WORK

Data for Allegheny River at Red House, N. Y., were collected and prepared for publication under the direction of A. W. Harrington, district engineer, assisted by B. L. Bigwood, A. E. Johnson, K. K. Hoyt, F. H. Harrington, and Agnes D. Buchanan.

Data for stations in West Virginia were collected and prepared for publication under the direction of A. H. Horton, district engineer, assisted by D. S. Wallace and J. W. Mangan.

Data for stations in Ohio, on Barren, Green, and Kentucky Rivers in Kentucky, and on East Fork of White River in Indiana, were collected and prepared for publication under the direction of Lasley Lee, district engineer, assisted by E. E. R. Dornbach, W. S. Frame, R. G. Kasel, E. H. Markel, J. I. Perrey, E. P. Coady, and C. H. Wall.

Data for stations in Illinois and for that on Wabash River at Logansport, Ind., were collected and prepared for publication under the direction of H. E. Grosbach, district engineer, assisted by A. M. Wahl.

Data for stations in Virginia were collected and prepared for publication under the direction of J. J. Dirzulaitis, district engineer, assisted by O. D. Mussey, F. C. Christopherson, N. B. Ulser, and Miss S. F. Norris.

Data for stations in the Cumberland and Tennessee River Basins in Kentucky, Tennessee, Georgia, and Alabama were collected and prepared for publication under the direction of W. R. King, district engineer, assisted by Warren Withee, P. E. Hanson, D. S. Wallace, M. T. Thomson, P. P. Livingston, P. R. Speer, Duncan Charlton, and Miss Mary Heird.

Data for stations in the Tennessee River Basin in North Carolina, except those for Cheoah River at Johnson and Tapoco, N. C., were collected and prepared for publication under the direction of E. D. Burchard, district engineer, assisted by J. H. Morgan, A. E. Johnson, Karl Jetter, L. J. Hall, F. M. Bell, H. W. Palm, H. A. Taylor, and Mrs. Effie T.Workman.

The records were reviewed and manuscript assembled by Otto Lauterhahn.

GAGING-STATION RECORDS

ALLEGHENY RIVER BASIN

ALLEGHENY RIVER AT RED HOUSE, N. Y.

LOCATION.—Water-stage recorder at highway bridge in Red House, Cattaraugus County.

DRAINAGE AREA.—1,640 square miles.

RECORDS AVAILABLE.—September, 1903, to September, 1927.

EXTREMES.—Maximum discharge during year, 18,500 second-feet March 22 (gage height, 9.3 feet); minimum, 134 second-feet September 28 (gage height, 2.81 feet).

1903–1927: Maximum discharge, 41,000 second-feet March 2, 1910 (gage height, 13.6 feet); minimum, about 100 second-feet several days in December, 1908 (gage height, 2.7 feet).

REMARKS.—Records good except those for period of ice effect and those estimated, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,880	6,200	5,500			3,220	3,220	4,260	3,900	427	2,760	a 278
2	1,670	5,640	4,450			a 2,680	3,220	3,440	3,110	400	1,710	a 264
3	1,650	5,230	3,600			a 2,380	3,780	3,000	2,580	392	1,240	257
4	1,700	4,450	3,490			a 2,100	3,560	3,000	2,280	368	908	a 258
5	1,730	3,840	2,840			1,990	6,040	4,520	2,580	336	701	a 237
6	4,430	3,490	1,650			2,010	10,000	4,390	2,380	320	576	a 230
7	4,830	3,270	2,030		a 3,400	2,380	8,740	3,900	1,900	368	481	a 224
8	4,080	2,940	2,540			2,580	7,400	3,440	1,630	463	472	a 218
9	3,270	2,640	2,840			3,220	6,320	3,110	1,440	454	538	a 204
10		3,490	2,640	a 1,000		4,260	5,310	3,220	1,300	384	509	198
11		3,720	2,360			7,040	4,260	3,330	1,160	328	409	198
12		3,270	2,360			9,640	3,560	3,110	1,060	313	368	198
13	a 3,000	a 2,940	2,080			10,000	3,110	2,790	985	306	320	198
14		2,840	3,270			14,500	2,680	2,680	933	292	368	218
15		2,740	3,840		a 3,900	17,000	2,380	3,920	884	292	368	230
16		10,400	2,450		3,970	15,200	2,120	4,900	860	328	400	224
17	2,640	14,400	1,730		7,860	13,200	2,100	4,900	778	384	392	204
18	2,540	10,600	1,540		8,050	10,400	2,030	4,770	712	409	352	204
19	2,640	10,600		a 650	5,730	10,000	1,780	4,640	690	400	313	192
20	2,740	8,840		a 800	4,140	9,120	1,640	4,770	745	368	328	185
21	2,640	a 7,550		a 3,800	3,440	15,300	1,530	4,260	778	299	336	185
22	2,640	a 6,640		b 9,000	3,440	18,500	2,230	3,780	712	313	530	179
23	2,840	a 5,500		b 9,500	4,870	15,600	2,480	4,800	648	566	836	179
24	a 2,940	a 4,450		b 8,000	8,220	12,400	2,150	15,000	648	756	690	174
25	8,010	a 3,720	a 1,450	b 7,000	6,620	9,280	1,990	15,600	585	848	518	168
26	12,000	a 3,270		b 5,500	6,470	6,920	2,260	15,200	932	596	a 400	156
27	9,180	a 4,080		b 4,000	5,040	5,590	4,700	13,200	883	472	360	151
28	7,400	a 4,320		a 3,400	4,020	5,450	6,770	10,800	690	384	a 328	139
29	6,200	3,600		a 3,000	-------	4,640	6,020	8,390	576	429	a 313	145
30	5,100	5,780		a 7,000	-------	3,900	5,170	6,470	490	1,430	a 306	145
31	5,360	-------		a 6,500	-------	3,560	-------	4,770	-------	2,350	a 292	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,000	1,650	3,910	2.38	2.74
November	14,400	2,640	5,350	3.26	3.64
December	5,500	----------	2,260	1.38	1.59
January	9,500	650	2,780	1.70	1.96
February	8,220	----------	4,410	2.69	2.80
March	18,500	1,990	7,870	4.80	5.53
April	10,000	1,530	3,950	2.41	2.69
May	15,600	2,680	5,750	3.51	4.05
June	3,900	490	1,290	.787	.88
July	2,350	292	509	.310	.36
August	2,760	292	594	.362	.42
September	278	139	201	.123	.14
The year	18,500	139	3,240	1.98	26.80

a Estimated because of missing gage-height records. b Estimated because of ice effect.

MONONGAHELA RIVER BASIN

TYGART RIVER NEAR DAILEY, W. VA.

LOCATION.—Staff gage at Burnt Bridge, 1,000 feet above Stalnaker Run and 1 mile northeast of Dailey, Randolph County.

DRAINAGE AREA.—194 square miles.

RECORDS AVAILABLE.—April, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,920 second-feet February 6 (gage height, 10.06 feet); minimum, 7.8 second-feet July 22 (gage height, 0.70 foot).

1915–1927: Maximum discharge, 9,150 second-feet March 13, 1918 (gage height, 15.9 feet); minimum, 1.5 second-feet September 3, 11, and 12, 1925 (gage height, 0.44 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	555	419	335	384	811	304	723	3,180	124	38	367	70
2	475	384	304	289	555	289	1,400	1,050	103	34	437	55
3	2,100	320	274	259	367	216	857	595	144	33	274	44
4	723	230	230	384	304	178	1,620	437	166	29	419	39
5	367	190	320	723	998	144	1,050	335	216	22	274	34
6	274	144	1,790	475	4,170	190	1,560	274	178	15	203	30
7	216	124	767	367	2,620	230	811	244	155	71	113	25
8	166	116	515	304	1,140	1,340	555	216	134	134	144	24
9	118	105	456		679	1,240	1,730	178	113	91	2,830	45
10	103	351	950		456	637	2,490	155	92	63	2,300	41
11	89	320	857		367	437	998	166	77	43	811	1,340
12	81	259	595		274	320	595	178	71	41	203	304
13	70	216	1,400		244	289	437	216	81	39	134	144
14	134	190	1,140	220	259	274	555	230	166	81	144	105
15	105	178	679		351	401	515	637	857	65	903	101
16	91	2,360	475		320	351	419	1,560	367	50	419	71
17	144	1,670			351	304	367	2,360	230	42	244	56
18	216	857			456	244	304	1,340	155	34	203	46
19	178	811	270		4,400	230	230	1,090	155	24	259	47
20	515	555		3,810	1,670	998	230	767	166	16	401	55
21	1,730	401	2,760	3,740	998	723	244	767	124	10	903	47
22	555	304	4,400	1,620	637	950	1,240	679	100	30	419	39
23	419	244	1,670	1,400	1,670	679	723	437	87	723	274	32
24	304	203	1,340	2,160	2,040	401	515	335	81	216	190	29
25	950	203	767	1,050	857	304	351	259	67	178	134	23
26	723	190	2,830	637	723	259	274	259	73	94	105	20
27	475	304	1,340	419	515	216	475	289	63	43	79	18
28	335	304	811	367	384	166	857	230	52	29	71	16
29	289	289	857	384	------	144	998	203	45	25	100	14
30	274	320	679	1,140	------	124	2,490	166	41	65	144	12
31	304	------	456	1,730	------	124	------	144	------	98	94	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,100	70	422	2.18	2.51
November	2,360	105	419	2.16	2.41
December	4,400	230	970	5.00	5.76
January	3,810	----------	776	4.00	4.61
February	4,400	244	1,020	5.26	5.48
March	1,340	124	410	2.11	2.43
April	2,490	230	854	4.40	4.91
May	3,180	144	612	3.15	3.63
June	857	41	149	.768	.86
July	723	10	79.9	.412	.48
August	2,830	71	439	2.26	2.61
September	1,340	12	97.5	.503	.56
The year	4,400	10	518	2.67	36.25

TYGART RIVER AT BELINGTON, W. VA.

LOCATION.—Chain gage on highway bridge at Belington, Barbour County, a quarter of a mile above Mill Creek. Zero of gage is 1,670.89 feet above mean sea level.

DRAINAGE AREA.—390 square miles.

RECORDS AVAILABLE.—June, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,920 second-feet February 6 (gage height, 12.90 feet); minimum, 41 second-feet July 21 (gage height, 2.28 feet).

1907–1927: Maximum discharge, 20,100 second-feet March 13, 1917 (gage height, 21.48 feet); minimum, 3 second-feet October 2, 1914 (gage height, 1.70 feet).

REMARKS.—Records fair. Discharge estimated January 14–18 because of ice effect and April 27 and May 11 because of missing gage-height records.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	486	904	688	1,020	1,850	795	416	7,110	394	122	3,050	189
2	904	959	741	795	1,190	688	3,420	2,700	312	103	2,960	148
3	3,620	795	636	662	850	610	1,920	1,440	312	89	904	124
4	2,380	585	560	741	688	439	2,000	1,070	439	82	1,560	107
5	1,070	486	510	1,700	688	439	3,320	1,130	1,070	68	1,070	92
6	688	394	2,300	1,250	8,310	416	3,050	904	688	62	585	84
7	560	352	1,850	904	7,590	486	2,150	688	510	1,850	373	73
8	416	312	1,190	610	3,050	1,500	1,310	585	416	1,700	439	67
9	312	294	1,130	585	1,630	3,520	2,460	535	312	535	2,870	92
10	258	535	2,230	585	1,070	1,700	5,950	462	275	312	3,520	140
11	224	795	2,380	416	850	1,070	2,460	450	275	204	1,130	4,010
12	195	662	1,560	312	688	795	1,370	439	224	145	636	1,630
13	204	560	2,230	352	636	636	1,020	560	312	116	416	636
14	535	510	3,320		688	636	959	636	1,560	105	312	394
15	373	462	1,850		1,190	959	959	2,540	3,710	100	2,000	294
16	275	850	1,190	360	959	850	850	3,520	1,440	126	1,250	240
17	688	4,840	688		850	741	741	5,060	795	116	662	186
18	1,250	1,920	636		904	610	636	3,810	535	113	439	155
19	688	1,370	373	741	5,610	560	535	5,280	585	87	394	189
20	1,780	1,190	462	5,610	5,610	1,310	486	2,300	688	55	688	204
21	3,710	904	5,610	7,830	2,460	1,850	439	1,310	486	43	1,780	169
22	1,630	688	7,710	5,500	1,500	2,540	1,130	2,070	352	169	1,130	107
23	959	560	6,060	4,410	2,460	1,630	2,070	1,310	275	535	662	105
24	688	462	2,230	5,390	4,730	1,070	1,250	959	373	850	439	100
25	1,780	416	2,000	2,790	2,380	795	904	741	275	312	352	84
26	2,150	416	5,610	1,560	1,630	636	688	688	275	186	275	73
27	1,370	510	4,110	959	1,250	560	1,000	850	294	126	207	77
28	959	636	1,920	662	959	439	1,560	741	240	98	172	64
29	741	636	2,000	1,020	-------	394	1,190	585	174	85	224	60
30	662	610	1,700	1,700	-------	352	5,390	486	143	107	258	51
31	688	-------	1,190	3,520	-------	312	-------	416	-------	240	258	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,710	195	1,040	2.67	3.08
November	4,840	294	820	2.10	2.34
December	7,710	373	2,150	5.51	6.35
January	7,830	----------	1,720	4.41	5.08
February	8,310	636	2,220	5.69	5.92
March	3,520	312	946	2.43	2.80
April	5,950	416	1,720	4.41	4.92
May	7,110	416	1,660	4.26	4.91
June	3,710	143	591	1.52	1.70
July	1,850	43	285	.731	.84
August	3,520	172	1,000	2.56	2.95
September	4,010	51	331	.849	.95
The year	8,310	43	1,200	3.08	41.84

TYGART RIVER AT FETTERMAN, W. VA.

LOCATION.—Chain gage on highway bridge at Fetterman, Taylor County, three-fourths mile above Otter Creek. Zero of gage is 957.86 feet above mean sea level.

DRAINAGE AREA.—1,340 square miles.

RECORDS AVAILABLE.—June, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 25,600 second-feet February 7 (gage height, 16.39 feet); minimum, 90 second-feet September 10 (gage height, 3.30 feet).

1907–1927: Maximum discharge, about 57,600 second-feet July 25, 1912 (gage height, 29.1 feet); minimum, 12 second-feet October 27, 28, and November 4–10, 1908 (gage height, 2.30 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,000	3,460	2,180	3,980	5,740	2,770	2,180	20,000	1,030	415	11,100	469
2	3,280	3,810	2,430	2,940	3,980	2,430	7,570	13,500	895	357	13,500	385
3	8,520	2,940	2,180	2,260	2,940	2,000	7,190	5,740	761	305	5,210	305
4	8,140	2,430	1,840	2,090	2,430	1,500	5,560	3,640	1,100	230	3,110	250
5	4,160	1,840	1,580	4,860	2,000	1,330	6,630	4,160	5,380	215	3,980	220
6	2,770	1,410	3,810	5,380	7,760	1,180	7,190	3,280	3,280	163	2,430	173
7	2,000	1,180	5,210	3,280	23,900	1,330	7,760	2,770	2,260	164	1,580	168
8	1,410	1,030	3,810	2,430	13,800	3,110	4,860	2,260	1,580	4,860	1,100	134
9	1,100	960	3,460	2,090	6,450	9,700	3,810	2,000	1,100	2,430	11,100	141
10	830	2,000	6,450	2,000	3,810	7,190	13,800	1,660	830	1,100	13,800	108
11	685	2,600	9,300	1,750	2,940	4,160	10,500	1,580	761	637	6,630	2,940
12	606	2,430	6,630	1,330	2,600	2,940	5,380	1,330	606	415	2,940	6,450
13	705	2,000	7,000	1,100	2,260	2,260	3,640	1,840	830	318	1,750	2,600
14	1,750	1,660	10,100	1,100	2,430	2,000	2,940	2,090	830	245	1,180	1,250
15	1,840	1,410	7,000		4,340	2,600	2,600	3,810	5,740	240	1,750	830
16	1,250	2,940	4,340	1,500	3,810	2,770	2,260	11,800	5,210	220	3,980	606
17	1,500	10,500	2,940		3,110	2,430	2,000	15,100	2,600	230	2,090	477
18	3,810	8,900	2,180		3,640	2,000	1,750	14,600	1,660	210	1,410	430
19	3,280	5,740	2,000	2,770	12,700	1,750	1,410	18,200	2,260	220	960	761
20	2,600	4,160	1,330	10,300	13,500	3,640	1,330	9,300	2,770	200	960	895
21	10,700	3,110	9,500	23,600	5,740	5,560	1,250	4,680	1,920	173	3,110	635
22	8,330	2,430	23,600	19,300	8,900	7,380	2,430	3,280	1,250	134	3,110	485
23	4,340	2,000	20,500	18,000	12,400	5,910	6,270	3,810	960	230	2,090	370
24	2,770	1,660	11,100	19,100	8,900	3,980	4,340	2,770	960	1,410	1,410	283
25	4,340	1,410	7,950	12,200	7,570	2,770	2,940	2,090	1,030	1,250	1,100	230
26	8,140	1,250	16,000	6,090	6,630	2,260	2,430	1,920	1,250	597	772	186
27	5,910	1,500	15,300	3,640	5,040	1,920	2,090	2,000	1,250	403	597	164
28	3,810	1,660	8,140	2,600	3,640	1,580	2,940	2,000	1,030	294	415	134
29	2,770	2,000	7,000	3,110	-------	1,250	3,280	1,660	738	215	430	148
30	2,430	2,000	7,000	3,980	-------	1,030	11,800	1,330	543	313	461	138
31	2,430	-------	4,860	6,270	-------	830	-------	1,330	-------	695	493	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	10,700	606	3,490	2.60	3.00
November	10,500	960	2,750	2.05	2.29
December	23,600	1,330	6,990	5.22	6.02
January	23,600	-------	5,600	4.18	4.82
February	23,900	2,000	6,530	4.87	5.07
March	9,700	830	3,020	2.25	2.59
April	13,800	1,250	4,670	3.49	3.89
May	20,000	1,330	5,340	3.99	4.60
June	5,740	543	1,750	1.31	1.46
July	4,860	134	610	.455	.52
August	13,800	415	3,370	2.51	2.89
September	6,450	108	746	.557	.62
The year	23,900	108	3,730	2.78	37.77

MIDDLE FORK AT MIDVALE, W. VA.

LOCATION.—Staff gage one-third mile above Midvale station on Coal & Coke Railway, Randolph County, and 1¾ miles below Laurel Creek.

DRAINAGE AREA.—122 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,170 second-feet December 21 (gage height, 9.93 feet); minimum, 13 second-feet September 30 (gage height, 1.38 feet).

1915–1927: Maximum discharge, not determined; maximum gage height, 16.1 feet January 28, 1918 (stage-discharge relation was affected by ice); minimum discharge, 2.5 second-feet September 12, 1925 (gage height, 1.04 feet).

Floods of 1888 and 1912 reached gage height of about 18 feet.

REMARKS.—Records good. Discharge estimated October 24, November 13, 14, and March 13 because of missing gage-height records and January 15–18 because of ice effect.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	359	432	254	345	495	292	359	1,540	142	57	432	50
2	305	388	242	254	402	242	495	800	117	49	402	42
3	887	318	218	254	292	173	529	495	142	45	292	35
4	495	267	195	373	184	173	887	495	184	36	463	33
5	318	206	218	463	564	124	800	463	254	25	267	29
6	242	173	529	373	2,220	184	2,220	388	184	18	162	24
7	184	142	432	305	1,960	184	758	318	173	218	121	20
8	142	121	432	242	843	1,020	495	267	152	206	162	19
9	117	206	432	280	529	978	1,660	206	117	109	2,280	20
10	106	242	1,020	230	388	638	1,540	184	102	76	978	40
11	85	206	843	132	242	402	800	184	102	55	432	1,020
12	78	195	600	104	195	318	529	230	78	41	218	267
13	78	195	1,120	184	242	360	402	267	93	29	142	173
14	142	195	978	267	267	402	373	305	638	26	124	104
15	89	195	638		359	345	292	1,070	717	38	402	85
16	78	887	432	225	332	305	267	1,710	345	35	206	73
17	600	800	373		318	267	184	2,220	218	43	162	68
18	463	564	230		432	242	195	1,320	195	37	152	55
19	305	432	206	495	2,560	242	184	932	230	24	128	66
20	1,220	345	267	3,050	1,380	638	173	677	218	20	292	68
21	978	292	3,890	3,050	758	677	152	463	152	14	758	45
22	564	242	2,910	1,770	529	758	717	677	109	31	402	39
23	388	195	1,320	1,540	1,020	564	529	432	128	162	280	33
24	300	173	758	2,020	978	402	463	359	128	95	184	30
25	564	173	932	932	600	318	318	267	95	52	132	26
26	564	162	2,700	529	529	267	267	318	173	35	99	24
27	463	230	978	373	463	230	432	345	152	31	173	22
28	373	206	677	305	345	184	529	292	99	26	72	19
29	332	206	717	432	-------	152	463	242	84	24	90	17
30	332	267	529	564	-------	152	2,350	184	65	39	82	14
31	373	-------	432	638	-------	132	-------	162	-------	113	62	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,220	78	372	3.05	3.52
November	887	121	288	2.36	2.63
December	3,890	195	823	6.75	7.78
January	3,050	104	658	5.39	6.21
February	2,560	184	694	5.69	5.92
March	1,020	124	367	3.01	3.47
April	2,350	152	645	5.29	5.90
May	2,220	162	575	4.71	5.43
June	717	65	186	1.52	1.70
July	218	14	58.4	.479	.55
August	2,280	62	327	2.68	3.09
September	1,020	14	85.3	.699	.78
The year	3,890	14	422	3.46	46.98

BUCKHANNON RIVER AT HALL, W. VA.

LOCATION.—Staff gage one-fourth mile above post office at Hall, Barbour County, and 1 mile above Pecks Run.

DRAINAGE AREA.—277 square miles.

RECORDS AVAILABLE.—June, 1907, to May, 1909, and April, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,660 second-feet December 22 (gage height, 9.00 feet); minimum, 27 second-feet September 30 (gage height, 1.92 feet).

1915–1927: Maximum discharge, about 12,000 second-feet March 14, 1918 (gage height, 14.7 feet); minimum, 4 second-feet October 23, 1924 (gage height, 1.52 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	880	1,080	632	880	1,130	632	680	4,670	220	106	4,070	121
2	980	930	540	680	880	540	1,460	2,180	211	84	1,960	87
3	2,070	730	477	540	680	450	1,180	1,180	197	72	1,080	70
4	1,510	540	432	730	540	352	1,400	980	375	61	1,400	61
5	930	441	405	1,840	495	312	1,620	1,180	830	56	980	56
6	632	375	980	1,240	3,600	312	1,840	880	495	50	585	50
7	540	318	980	830	4,270	338	1,620	680	390	632	390	44
8	459	282	880	585	2,290	1,180	1,080	540	330	1,130	495	41
9	368	282	880	495	1,240	2,720	1,730	441	259	405	3,220	34
10	288	730	1,840	450	830	1,400	3,600	375	206	232	3,880	33
11	237	780	2,180	382	680	880	1,730	338	184	153	1,290	242
12	211	585	1,460	300	540	632	1,080	330	180	112	680	730
13	215	486	1,730	312	540	495	780	477	211	87	459	312
14	423	423	2,400	390	632	540	680	486	540	68	368	215
15	459	368	1,510		980	880	540	2,180	2,290	63	980	202
16	330	2,720	1,030	370	780	730	423	2,820	980	57	830	193
17	459	3,600	680		680	540	375	3,690	495	82	495	130
18	1,180	1,620	495		780	486	360	3,980	382	82	390	109
19	880	1,290	414	780	4,170	459	338	3,310	495	84	338	136
20	1,510	930	495	2,920	4,370	1,030	294	1,620	405	72	368	184
21	3,220	680	4,270	5,170	2,510	1,290	270	1,030	294	57	830	153
22	1,510	540	6,440	4,170	1,460	1,620	1,080	730	226	48	632	103
23	930	432	3,980	4,370	2,180	1,290	1,730	632	193	259	495	82
24	680	360	1,840	5,070	2,400	930	1,030	585	259	585	468	65
25	1,240	330	1,840	2,720	1,620	680	730	459	270	232	330	50
26	1,840	352	4,070	1,340	1,460	495	540	405	220	164	254	50
27	1,290	459	2,920	880	1,080	423	585	486	288	118	202	44
28	880	540	1,460	632	830	360	930	423	220	84	153	39
29	730	540	1,730	830	-------	306	780	360	161	68	139	36
30	632	540	1,510	1,130	-------	259	3,980	318	130	76	153	30
31	632	-------	1,080	1,620	-------	226	-------	259	-------	276	157	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,220	211	908	3.28	3.78
November	3,600	282	776	2.80	3.12
December	6,440	405	1,660	5.99	6.91
January	5,170	300	1,380	4.98	5.74
February	4,370	495	1,560	5.63	5.86
March	2,720	226	735	2.65	3.06
April	3,980	270	1,150	4.15	4.63
May	4,670	259	1,230	4.44	5.12
June	2,290	130	398	1.44	1.61
July	1,130	48	184	.664	.77
August	4,070	139	906	3.27	3.77
September	730	30	123	.444	.50
The year	6,440	30	915	3.30	44.87

WEST FORK RIVER AT BUTCHERVILLE, W. VA.

LOCATION.—Chain gage on trolley bridge between Weston and Clarksburg, a quarter of a mile above Butcherville, Lewis County.

DRAINAGE AREA.—181 square miles.

RECORDS AVAILABLE.—April, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,130 second-feet November 16 (gage height, 22.87 feet; from watermark on bridge); minimum, 4.8 second-feet September 8 (gage height, 3.59 feet).

1915–1927: Maximum discharge, 7,590 second-feet March 13, 1918, and January 2, 1919 (gage height, 24.0 feet); no flow in October, 1919, September, October, and December, 1922, caused by either diversion or impounding at small dams upstream.

Maximum stage known, about 27 feet in 1888. Dam since washed out may have increased height of this flood.

REMARKS.—Records good. Discharge estimated February 10, 18, April 16–19, 21, June 29, August 12, and September 1 because of missing gage-height records and partly estimated November 15–17 because of flood conditions.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	346	740	395	323	395	247	1,880	2,210	45	17	3,430	12
2	1,150	455	323	268	395	217	1,020	820	36	20	1,150	12
3	1,470	178	227	227	257	168	555	323	40	14	395	10
4	590	141	178	700	178	125	660	395	257	8	1,020	9
5	268	118	268	1,470	207	103	590	590	395	12	425	8
6	237	96	590	660	2,300	110	590	323	188	11	237	7
7	217	84	370	346	2,380	110	425	217	118	168	133	6
8	141	54	346	237	1,190	1,600	278	178	90	395	323	5
9	96	90	555	178	370	900	1,720	159	62	217	2,550	7
10	72	740	2,050	168	270	370	2,170	110	45	72	1,150	35
11	54	395	982	103	227	247	625	118	38	41	370	67
12	44	237	660	78	237	188	346	159	38	29	160	62
13	78	141	1,520	78	278	141	247	168	84	23	96	35
14	455	118	1,230	278	395	237	217	178	227	19	67	29
15	257	410	485	323	555	455	178	2,470	1,520	22	941	32
16	159	5,870	247	217	346	300		2,260	300	39	346	26
17	625	2,510	188	197	257	217	160	1,560	150	45	159	19
18	395	660	133	150	750	159		1,760	96	28	118	15
19	237	740	96	455	4,440	178		1,600	125	141	90	278
20	1,060	455	278	1,520	2,260	941	103	590	103	54	62	168
21	1,680	300	3,730	4,060	982	590	100	346	62	27	62	58
22	590	217	3,390	2,550	740	700	1,430	197	42	49	41	34
23	268	168	1,310	2,630	2,720	395	900	159	38	1,270	30	23
24	520	125	555	2,630	1,310	268	237	150	62	300	30	17
25	1,350	110	1,390	1,150	860	197	197	125	118	150	25	13
26	1,190	168	3,220	370	941	150	168	96	141	51	23	12
27	455	268	1,060	237	520	125	346	125	141	33	20	10
28	268	268	555	178	346	103	425	78	48	25	16	9
29	217	237	1,430	520	-------	84	346	54	40	24	14	7
30	188	370	860	941	-------	67	4,270	54	32	58	14	7
31	590	-----	555	780	-------	62	-------	44	-------	1,100	13	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,680	44	492	2.72	3.14
November	5,870	54	549	3.03	3.38
December	3,730	96	941	5.20	6.00
January	4,060	78	775	4.28	4.93
February	4,440	178	932	5.15	5.36
March	1,600	62	315	1.74	2.01
April	4,270	----------	689	3.81	4.25
May	2,470	44	568	3.14	3.62
June	1,520	32	156	.862	.96
July	1,270	8	144	.796	.92
August	3,430	13	436	2.41	2.78
September	278	5	34.4	.190	.21
The year	5,870	5	501	2.77	37.56

WEST FORK RIVER AT CLARKSBURG, W. VA.

LOCATION.—Water-stage recorder at dam of Clarksburg waterworks three-fourths mile south of Clarksburg, Harrison County.

DRAINAGE AREA.—384 square miles.

RECORDS AVAILABLE.—March, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,800 second-feet November 16 (gage height, 7.26 feet); minimum, 10 second-feet September 6–8 (gage height, 0.10 foot); includes pumpage for water supply.

1923–1927: Maximum discharge, 16,300 second-feet May 12, 1924 (gage height, 7.76 feet); minimum, 4.4 second-feet August 31 and September 1, 1925, all pumpage, no flow over dam.

REMARKS.—Records good. Water diverted for water supply of Clarksburg is included in records.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	563	1,590	775	727	838	580	2,130	5,810	100	43	3,700	20
2	853	1,080	624	530	563	459	3,360	1,670	94	30	3,350	20
3	3,450	614	458	451	444	379	1,320	727	100	23	880	20
4	1,560	421	365	851	365	312	1,010	654	292	19	862	18
5	660	312	407	2,690	337	261	1,170	1,210	902	15	796	16
6	530	256	1,320	1,600	2,070	254	1,000	727		14	379	13
7	408	212	967	849	6,420	286	838	481		14	358	10
8	318	183	706	512	2,090	1,740	563	364	225	341	457	12
9	242	218	784	401	935	2,210	1,760	312		333	2,940	26
10	189	848	2,380	351	588	1,010	4,270	273		207	2,000	51
11	156	784	2,570	286	475	580	1,710	311	93	114	735	104
12	134	496	1,490	224	428	408	765	292	99	69	345	104
13	402	372	1,910	201	436	318	538	280	157	44	230	119
14	1,010	312	2,440	280	670	358	490	304	207	31	190	60
15	727	1,200	1,280	633	1,340	736	401	1,560	847	25	431	43
16	437	12,100	697	318	935	589	325	3,030	997	24	736	39
17	1,130	9,220	459	312	669	409	318	2,840	318	51	325	30
18	1,010	1,890	345	312	1,430	338	324	2,240	207	73	196	26
19	571	1,450	266	576	7,190	372	273	5,010	189	51	151	36
20	902	1,120	448	2,420	5,470	2,000	230	1,550	224	114	179	180
21	3,040	706	4,960	6,900	2,440	1,720	201	697	190	83	190	151
22	1,400	458	6,540	5,610	1,480	1,720	1,000	437	135	68	184	83
23	623	351	3,310	6,540	4,810	1,050	1,840	318	109	1,050	109	43
24	592	292	1,440	6,120	4,190	633	795	286	93	798	83	24
25	2,340	266	1,880	2,320	1,920	459	458	249	119	286	68	20
26	2,670	304	6,820	1,000	1,860	350	338	219	157	156	51	18
27	1,300	386	3,310	538	1,290	305	358	219	104	94	39	16
28	651	451	1,360	386	806	255	716	190	119	60	26	14
29	428	426	2,700	784	-------	224	538	156	114	60	24	13
30	371	522	1,880	1,110	-------	201	5,910	130	73	119	20	13
31	668	-------	1,030	1,450	-------	184	-------	109	-------	443	20	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,450	134	946	2.46	2.84
November	12,100	183	1,290	3.36	3.75
December	6,820	266	1,800	4.69	5.41
January	6,900	201	1,530	3.98	4.59
February	7,190	337	1,870	4.87	5.07
March	2,210	184	668	1.74	2.01
April	5,910	201	1,160	3.02	3.37
May	5,810	109	1,050	2.73	3.15
June	997	73	239	.622	.69
July	1,050	14	157	.409	.47
August	3,700	20	647	1.68	1.94
September	180	10	44.7	.116	.13
The year	12,100	10	947	2.47	33.42

CHEAT RIVER NEAR PARSONS, W. VA.

LOCATION.—Chain gage on Moss highway bridge 2 miles north of Parsons, Tucker County, and 2 miles below junction with Shavers Fork.

DRAINAGE AREA.—719 square miles.

RECORDS AVAILABLE.—January, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 15,700 second-feet January 21 (gage height, 10.00 feet); minimum, 118 second-feet September 30 (gage height, 1.98 feet).

1913–1927: Maximum discharge, about 50,000 second-feet March 12, 1917 (gage height, about 18.03 feet); minimum, about 29 second-feet September 6, 1917 (gage height, about 1.52 feet).

Maximum stage known, about 20.0 feet July 10, 1888 (discharge, about 80,000 second-feet).

REMARKS.—Records good except those for period October 17 to May 31, which are fair. Records collected by West Virginia Power & Transmission Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,920								1,200	325	3,840	420
2	1,440								950	450	4,800	357
3	6,500	1,580	1,270		1,920	1,270		4,470	950	420	2,360	320
4	3,300			1,380					1,380	294	2,980	284
5	2,360								3,480	256	2,060	237
6	2,060						4,200		1,710	233	1,200	212
7	1,640								1,260	950	905	191
8	1,200	794	2,710		8,020	3,760		1,340	1,200	2,360	1,380	195
9	1,640								1,000	1,100	5,620	195
10	860								815	725	3,840	229
11	770								725	595	1,920	1,640
12	680	1,670	4,230		2,110	1,840	2,590	1,980	638	725	1,260	1,260
13	1,260			888					950	420	905	638
14	1,440								4,600	520	770	1,440
15	1,050								6,060	595	2,660	680
16	770								2,360	485	1,510	520
17									1,440	390	1,050	379
18	2,100	3,990	1,630		3,610	1,550	1,330	8,080	1,150	346	905	325
19									2,060	279	950	325
20									1,780	242	2,060	352
21									1,150	220	2,820	294
22				11,000					905	390	2,060	233
23	3,530	1,390	7,700			2,750	1,920	2,300	815	1,000	1,440	195
24									950	1,000	1,050	180
25					3,730				770	520	860	165
26									815	368	680	154
27									725	275	558	144
28	2,520	1,190	5,080	2,420		1,060	2,830	1,580	558	242	485	137
29									450	220	680	124
30									374	294	770	118
31										950	595	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,500	680	2,260	3.14	3.62
November			1,800	2.50	2.79
December			3,860	5.37	6.19
January			3,240	4.51	5.20
February			3,860	5.37	5.59
March			2,010	2.80	3.23
April			2,840	3.95	4.41
May			3,240	4.51	5.20
June	6,060	374	1,440	2.00	2.23
July	2,360	220	554	.771	.89
August	5,620	485	1,770	2.46	2.84
September	1,640	118	398	.554	.62
The year		118	2,270	3.16	42.81

BLACKWATER RIVER AT DAVIS, W. VA.

LOCATION.—Staff gage half a mile south of Davis, Tucker County, and 400 feet below Babcock Lumber & Boom Co.'s dam.

DRAINAGE AREA.—87 square miles.

RECORDS AVAILABLE.—April, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,850 second-feet January 21 (gage height, 6.84 feet); minimum, 12 second-feet September 30 (gage height, 1.21 feet).

1921–1927: Maximum discharge, 7,170 second-feet March 29, 1924 (gage height, 13.20 feet); minimum, 10 second-feet September 5, 1923 (gage height, 1.20 feet).

REMARKS.—Records good. Records collected by West Virginia Power & Transmission Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	215	162		204		890	850	162	77	890	40
2	226	172	[a] 110		172	[a] 160	700	410	118	132	700	35
3	735	142	99		162		410	260	114	91	440	31
4	440	123	109		183	162	350	272	215	63	350	26
5	238	119	[b] 142		530	172	284	215	500	50	194	24
6	183	112	322	[a] 95	1,170	272	440	152	272	45	123	22
7	162	100	226		1,450	380	284	142	183	172	116	21
8	132	92	296		810	970	215	121	142	272	172	22
9	109	92	410		350	595	440	142	116	105	410	31
10	95	595	410		249	350	500	116	105	83	238	26
11	83	322	309		226	260	350	109	102	71	116	26
12	80	194	215		194	204	238	142	95	60	95	24
13	119	162	500		194	183	226	162	194	51	77	20
14	272	152	500		410	215	284	172	1,050	55	73	50
15	132	142	350	[a] 65	440	215	194	560	810	67	86	42
16	92	665			249	172	152	700	440	43	66	23
17	249	735			215	132	152	700	204	35	56	18
18	249	440	[a] 130		380	132	132	735	152	33	57	16
19	152	365		322	440	162	116	850	560	28	95	17
20	470	226		1,170	249	380	109	530	380	26	132	22
21	530		930	1,800	260	500	112	284	226	27	105	19
22	336	[a] 170	1,170	1,450	238	410	284	272	132	173	70	16
23	204		930	1,170	595	272	183	350	132	249	52	15
24	296	132	530	1,010	770	194	[b] 151	238	123	80	45	14
25	630	152	500	630	595	172	119	183	107	56	40	14
26	440	172		336	410	162	105	284	142	37	36	14
27	296	204		[a] 105	[a] 226	162	183	272	102	27	33	13
28	238	183	[a] 380	[a] 204	[a] 194	142	194	204	83	24	33	12
29	215	142		309	-------	132	226	162	67	24	152	12
30	296	204		470	-------	116	1,050	123	60	50	100	12
31	249	-------		309	-------	930	-------	183	-------	172	60	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	735	80	261	3.00	3.46
November	735	92	229	2.63	2.93
December	1,170	99	360	4.14	4.77
January	1,800	----------	347	3.99	4.60
February	1,450	162	413	4.75	4.95
March	970	116	278	3.20	3.69
April	1,050	105	302	3.47	3.87
May	850	109	319	3.67	4.23
June	1,050	60	236	2.71	3.02
July	272	24	79.9	.918	1.06
August	890	33	168	1.93	2.22
September	50	12	22.6	.260	.29
The year	1,800	12	251	2.89	39.09

[a] Estimated because of ice effect. [b] Estimated; gage heights missing.

SHAVERS FORK AT FLINT, W. VA.

LOCATION.—Water-stage recorder at Western Maryland Railway bridge half a mile south of Flint, Randolph County. Zero of gage is 2,407.82 feet above mean sea level.

DRAINAGE AREA.—124 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,470 second-feet November 16 (gage height, 7.16 feet); minimum, 30 second-feet September 30 (gage height, 0.96 foot).

1924–1927: Maximum discharge, that of November 16, 1926; minimum, 10 second-feet August 31, 1925 (gage height, 0.59 foot).

REMARKS.—Records excellent except for estimated periods, for which they are fair. Discharge estimated November 29, 30, December 1–13, 16–19, and March 13 to May 8 when gage-height records were missing, and January 1–19 when stage-discharge relation was affected by ice. Records collected by West Virginia Power & Transmission Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	645	450			430	300			218	69	566	92
2	633	353			372	282			190	61	504	78
3	1,250	300	240		317	218			249	58	310	69
4	670	266			282	204			353	54	521	61
5	450	234			1,310	204	750	580	390	49	327	55
6	470	204			2,080	246			266	42	218	51
7	390	178			1,440	249			234	167	178	48
8	300	163	630		720	1,490			218	471	226	45
9	234	195			520	815		204	178	190	2,250	102
10	204	590		180	430	520		190	147	105	768	158
11	178	335			372	430		226	136	82	411	1,310
12	165	234	650		300	410		300	132	66	282	371
13	166	234			282		460	372	158	132	218	190
14	300	234	720		355			367	530	257	316	142
15	204	266	570		430			750	868	158	956	122
16	158	2,890			317	300		1,100	372	100	414	103
17	501	1,050	275		317			1,420	266	72	266	84
18	458	685			397			1,170	218	63	265	73
19	317	785			1,720			1,030	266	52	407	75
20	661	495	266	1,630	780			645	353	44	495	73
21	1,040	390	1,040	2,740	520	630		495	218	39	564	61
22	545	317	2,200	2,130	410			654	178	109	372	52
23	410	282	1,020	1,910	877		290	558	217	666	282	48
24	445	266	645	1,650	1,190			430	204	246	234	44
25	1,030	266	817	810	780			353	154	125	204	42
26	593	300	2,180	545	595			335	154	90	160	39
27	450	520	930	372	450	360		410	128	72	136	36
28	372	335	645	317	372			372	103	60	122	35
29	372	270	670	410	------			300	87	54	126	32
30	410	390	475	715	------		1,400	249	78	65	165	31
31	410	------	390	795	------		------	266	------	224	120	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,250	158	466	3.76	4.34
November	2,890	163	449	3.62	4.04
December	2,200	----------	644	5.19	5.98
January	2,740	----------	563	4.54	5.23
February	2,080	282	656	5.29	5.51
March	1,490	----------	415	3.35	3.86
April	----------	----------	509	4.10	4.57
May	----------	190	543	4.38	5.05
June	868	78	242	1.95	2.18
July	666	39	130	1.05	1.21
August	2,250	120	399	3.22	3.71
September	1,310	31	124	1.00	1.12
The year	----------	31	428	3.45	46.80

BIG SANDY CREEK AT ROCKVILLE, W. VA.

LOCATION.—Water-stage recorder at highway bridge at Rockville, Preston County, 5 miles above mouth and 6 miles below Bruceton Mills.

DRAINAGE AREA.—200 square miles, revised.

RECORDS AVAILABLE.—May, 1909, to March, 1918, and April, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,440 second-feet June 4 (gage height, 10.93 feet); minimum, 10 second-feet September 30.

1909–1918, 1921–1927: Maximum discharge, 21,300 second-feet July 24, 1912 (gage height, 18.0 feet); minimum, about 0.4 second-foot October 12, 1914 (gage height, 2.35 feet).

Maximum known stages were between 20 and 20.5 feet July 10, 1888, and July 17, 1907 (discharge between 28,000 and 30,000 second-feet, determined by engineers of West Virginia Power & Transmission Co.).

REMARKS.—Records good. During low water, regulation caused by operation of gristmills upstream. Records collected by West Virginia Power & Transmission Co. under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	375	832	395	518	465	605	967	1,780	382	70	55	63
2	1,180	670	355	395	440	490	1,140	1,070	300	57	82	56
3	1,530	490	300	355	395	375	1,000	768	430	44	49	43
4	832	375	300	375	375	318	930	702	2,500	45	44	34
5	518	318	575	418	572	277	800	605	2,900	52	46	30
6	670	266	1,000	355	1,280	395	800	465	1,260	43	33	27
7	440	221	605	283	1,140	575	670	395	832	35	28	26
8	318	196	832		800	1,800	518	355	545	52	63	28
9	236	208	1,210		605	1,280	1,180	418	395	49	281	59
10	196	355	1,360		465	865	1,210	375	300	33	148	38
				200								
11	174	266	1,140		395	605	832	440	236	35	87	37
12	164	208	832		336	465	605	490	196	33	58	48
13	164	208	1,210		336	375	518	575	164	26	50	40
14	208	196	1,210	336	1,400	465	440	605	368	22	51	40
15	153	185	865		1,520	418	355	1,210	362	21	88	30
16	131	392	545	250	1,000	355	318	1,700	196	22	58	27
17	153	605	440		800	318	300	1,880	153	23	46	20
18	164	545	266		800	300	250	2,040	143	23	132	20
19	164	800	236		1,000	796	250	2,070	330	21	138	90
20	241	605	336	2,890	865	1,520	375	1,280	355	18	403	58
21	395	465	1,220	4,570	768	1,680	300	865	266	18	1,070	44
22	300	355	2,090	3,900	670	1,280	1,180	638	208	29	348	38
23	250	300	1,560	3,130	1,460	930	1,000	930	208	160	266	32
24	360	266	1,260	2,210	1,950	670	670	735	164	97	185	26
25	1,550	236	1,830	1,360	1,950	490	465	545	133	68	120	24
26	1,280	250	2,830	865	1,770	418	395	1,220	205	50	86	22
27	930	283	1,440	545	1,140	375	490	1,780	153	39	74	20
28	735	236	1,070	490	832	336	518	1,070	109	24	62	18
29	575	250	1,000	702	-------	300	571	735	91	20	57	14
30	575	355	768	670	-------	266	2,680	518	65	20	59	12
31	670	-------	605	605	-------	250	-------	518	-------	29	79	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,550	131	504	2.52	2.90
November	832	185	365	1.82	2.03
December	2,830	236	958	4.79	5.52
January	4,570	----------	885	4.42	5.10
February	1,950	336	912	4.56	4.75
March	1,800	250	632	3.16	3.64
April	2,680	250	724	3.62	4.04
May	2,070	355	928	4.64	5.35
June	2,900	65	465	2.32	2.59
July	160	18	41.2	.206	.24
August	1,070	28	140	.700	.81
September	90	12	35.5	.178	.20
The year	4,570	12	548	2.74	37.17

BEAVER RIVER BASIN

MAHONING RIVER NEAR DEERFIELD, OHIO

LOCATION.—Chain gage in T. 1 N., R. 6 W., at highway bridge 1 mile above Willow Creek and 2½ miles southwest of Deerfield.

DRAINAGE AREA.—175 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,100 second-feet January 20 (gage height, 12.4 feet); minimum, 9 second-feet July 20 (gage height, 1.68 feet).

1923–1927: Maximum discharge, about 10,300 second-feet June 29, 1924 (gage height, 17.4 feet); minimum, 5 second-feet November 15, 1923, and September 5, 1925.

Flood of March, 1913, reached stage equivalent to gage height 19.0 feet.

REMARKS.—Records good except those for extremely high water and for periods in December and January when stage-discharge relation may have been slightly affected by ice, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	153	1,130	240	121	240	178	121	73	49	24	585	15
2	277	550	162	106	178	121	620	54	43	19	315	15
3	258	355	121	99	178	137	520	46	37	41	121	14
4	162	240	106	99	335	106	296	51	74	45	65	12
5	204	178	78	145	380	81	204	66	550	31	47	13
6	655	145	88	137	1,530	121	187	56	490	20	33	12
7	460	121	99	145	1,280	222	137	44	145	19	29	12
8	222	106	78	153	520	430	106	40	89	34	31	13
9	137	129	187	162	315	405	92	43	64	34	42	13
10	99	355	153	121	258	222	99	52	49	24	26	15
11	85	277	145	74	187	170	85	56	65	19	18	29
12	77	153	137	70	145	162	68	45	57	16	16	24
13	70	121	335	56	137	153	68	37	44	16	15	21
14	64	114	725	82	315	315	88	39	40	15	16	29
15	58	114	430	153	760	355	75	62	56	15	47	21
16	50	840	213	121	430	222	70	121	44	15	40	16
17	52	1,130	240	70	490	162	77	153	35	15	24	15
18	91	460	196	56	405	145	88	153	29	14	18	21
19	240	258	137	520	258	355	70	1,480	106	14	30	84
20	178	187	63	4,700	129	1,730	60	1,730	121	11	405	40
21	121	162	65	2,180	137	4,380	52	490	77	12	89	26
22	92	121	63	2,420	145	2,000	47	187	54	23	54	19
23	129	106	64	1,880	315	585	42	121	121	121	33	15
24	170	106	72	880	1,000	296	43	196	85	78	30	31
25	2,000	106	213	296	760	222	46	187	52	45	26	27
26	2,060	153	222	240	920	187	47	213	86	26	19	15
27	620	296	355	178	490	204	78	240	114	20	18	13
28	258	196	240	170	240	178	222	162	57	17	16	14
29	520	145	170	240	------	145	129	91	38	18	16	18
30	920	315	145	725	------	129	99	74	26	16	14	21
31	1,230	------	145	490	------	121	------	60	------	77	16	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,060	50	378	2.16	2.49
November	1,130	106	289	1.65	1.84
December	725	63	183	1.05	1.21
January	4,700	56	545	3.11	3.58
February	1,530	129	446	2.55	2.66
March	4,380	81	459	2.62	3.02
April	620	42	131	.749	.84
May	1,730	37	207	1.18	1.36
June	550	26	96.6	.552	.62
July	121	11	28.8	.165	.19
August	585	14	72.7	.415	.48
September	84	12	21.1	.121	.14
The year	4,700	11	238	1.36	18.43

MAHONING RIVER AT WARREN, OHIO

LOCATION.—Water-stage recorder at dam 200 feet below Erie Railroad (Shenango branch) crossing in Warren, Trumbull County.

DRAINAGE AREA.—599 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,990 second-feet March 22 (gage height, 6.7 feet); minimum mean daily discharge, 74 second-feet September 2.

1924–1927: Maximum discharge, that of March 22, 1927; minimum mean daily discharge, 44 second-feet August 9, 1925.

REMARKS.—Records good. Discharge estimated December 18–22, 31, January 1–5, and 25–29. The water diverted past right end of dam by the Ohio Public Service Co. is included in records. The city of Warren diverted a mean of 4.4 second-feet for municipal supply which is not included in the records. Slight regulation caused by operation of Milton Reservoir and hydroelectric plants above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	773	4,260	825	414	1,550	855	321	194	203	124	163	111
2	1,020	2,690	607	393	855	597	428	189	177	126	161	74
3	1,580	1,670	462	381	710	468	1,080	176	159	483	146	209
4	1,070	1,080	352	365	855	358	1,020	194	202	1,030	134	191
5	1,220	747	288	348	1,210	323	795	199	553	426	128	228
6	4,370	562	261	332	3,330	379	849	176	861	224	124	194
7	3,620	428	238	346	4,700	855	586	150	725	203	142	125
8	1,650	340	251	325	3,010	1,620	376	145	389	337	296	96
9	899	379	352	325	1,550	2,260	293	148	265	274	320	96
10	549	682	486	346	1,090	1,270	235	171	216	173	278	93
11	406	686	494	375	801	801	204	199	177	145	192	108
12	455	680	447	375	587	655	194	162	143	134	155	106
13	399	476	635	391	477	616	180	153	132	124	142	119
14	316	365	2,660	367	599	822	176	153	135	121	145	109
15	287	382	2,400	332	2,190	1,710	171	171	135	124	183	113
16	248	1,470	1,100	353	2,430	1,170	166	271	132	136	174	106
17	241	4,010	762	391	2,010	737	189	472	124	132	150	98
18	311	2,530	693	353	1,930	551	189	412	128	132	139	109
19	1,050	1,350	623	360	1,340	1,860	185	1,240	151	124	128	107
20	939	824	554	3,060	747	3,640	185	4,090	183	124	128	119
21	625	561	485	6,530	495	7,290	151	3,070	168	121	127	109
22	526	462	415	7,070	735	8,700	171	1,200	173	164	126	102
23	607	398	346	6,800	1,250	5,340	136	583	168	500	129	102
24	820	359	297	5,030	2,620	1,710	136	520	173	731	145	99
25	4,490	333	235	2,800	2,790	989	139	706	182	616	105	96
26	6,540	454	291	1,400	3,170	737	176	918	245	218	115	92
27	4,480	933	375	800	2,790	637	243	706	388	163	111	92
28	1,680	989	537	600	1,480	566	377	583	282	147	106	99
29	996	683	537	1,400	------	488	339	398	208	138	115	102
30	2,020	625	447	1,910	------	407	271	291	150	138	115	94
31	3,390	------	431	2,790	------	365	------	248	------	160	111	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	6,540	241	1,530	May	4,090	145	590
November	4,260	333	1,050	June	861	124	244
December	2,660	235	609	July	1,030	121	251
January	7,070	325	1,520	August	320	105	153
February	4,700	477	1,690	September	228	74	117
March	8,700	323	1,570				
April	1,080	136	332	The year	8,700	74	802

MAHONING RIVER AT YOUNGSTOWN, OHIO

LOCATION.—Water-stage recorder 400 feet above Bridge Street Bridge at Youngstown, Mahoning County. Chain gage on bridge used prior to November 16, and from December 7, 1926, to February 1, 1927. Zero of both gages, 826.53 feet above mean sea level.

DRAINAGE AREA.—899 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927. May, 1903, to July, 1906, at station 4½ miles downstream.

EXTREMES.—Maximum discharge during year, 12,400 second-feet March 22 (gage height, 11.8 feet); minimum, 94 second-feet July 14 (gage height, 2.08 feet).

1921–1927: Maximum discharge, that of March 22, 1927; minimum 59 second-feet October 22, 1921 (gage height, 1.12 feet).

Maximum stage known, 26.5 feet on March 26, 1913.

REMARKS.—Records good. Discharge estimated November 15, December 14, 15, 25, and Sundays in December and January. Water diverted for municipal water supply above station. Flow is slightly regulated at Milton Reservoir.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,330	5,660	1,270	542	2,740	1,490	580	315	250	143	321	127
2	1,330	3,750	1,060	498	1,490	1,060	938	260	222	146	245	124
3	2,110	2,410	812	454	1,220	765	1,600	235	209	306	188	130
4	1,570	1,650	738	398	1,380	565	1,710	240	338	1,040	166	191
5	1,170	1,250	479	542	1,860	479	1,380	245	812	670	152	222
6	4,230	1,020	387	542	4,960	529	1,440	227	1,060	297	136	226
7	5,530	840	454	605	6,040	1,010	1,270	214	1,010	314	140	192
8	2,630	605	348	605	4,240	2,150	960	201	625	495	192	133
9	1,650	805	605	530	2,370	2,940	765	196	394	415	362	123
10	1,250	1,490	805	454	1,710	2,100	554	196	303	255	339	120
11	1,100	1,330	1,100	398	1,270	1,450	408	222	270	201	231	130
12	1,020	1,020	1,100	348	935	1,160	333	218	209	170	192	124
13	702	805	1,100	323	765	1,060	297	196	188	152	177	149
14	605	574	2,900	323	1,020	1,490	270	205	181	118	181	140
15	542	1,760	2,600	348	2,890	2,320	250	222	174	133	177	133
16	454	2,950	1,330	323	3,120	1,820	240	500	166	155	177	127
17	425	5,070	1,100	323	2,820	1,270	255	910	152	170	159	127
18	482	3,900	770	323	2,800	1,040	265	860	166	174	149	151
19	1,330	2,370	656	605	2,040	1,890	265	2,260	192	166	140	152
20	1,490	1,710	542	7,590	1,220	7,080	260	4,440	231	177	136	146
21	1,330	1,220	454	9,140	860	11,900	250	4,160	235	188	140	149
22	1,170	960	348	11,700	910	12,100	245	1,980	226	348	133	143
23	945	765	348	9,220	1,870	8,620	226	1,010	245	670	133	140
24	1,650	625	398	6,750	4,160	3,540	214	860	260	1,060	149	136
25	7,170	554	522	3,750	4,480	1,820	214	1,060	250	670	149	130
26	8,290	765	646	1,920	4,810	1,270	218	1,380	449	352	130	130
27	7,030	1,380	770	1,020	3,920	1,110	275	1,220	580	255	124	130
28	3,180	1,380	875	805	2,260	1,010	455	1,010	415	218	127	130
29	2,010	1,160	1,020	1,920	-------	910	580	718	280	192	133	140
30	2,960	1,110	638	2,600	-------	765	401	423	209	177	143	140
31	5,270	-------	605	3,290	-------	718	-------	303	-------	265	130	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	8,290	425	2,320	May	4,440	196	854
November	5,660	554	1,700	June	1,060	152	343
December	2,900	348	864	July	1,060	118	326
January	11,700	323	2,200	August	362	124	176
February	6,040	765	2,510	September	226	120	144
March	12,100	479	2,500				
April	1,710	214	572	The year	12,100	118	1,200

EAGLE CREEK AT PHALANX STATION, OHIO

LOCATION.—Staff gage at highway bridge 1 mile north of Phalanx Station, Trumbull County, and 2 miles below Tinker Creek. Zero of gage is 887.42 feet above mean sea level.

DRAINAGE AREA.—97.0 square miles.

RECORDS AVAILABLE.—June, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,580 second-feet October 25 (gage height, 11.2 feet); minimum, 9.7 second-feet September 8 and 11 (gage height, 1.79 feet).

1926–27: Maximum discharge, 2,820 second-feet September 24, 1926 (gage height, 11.6 feet); minimum, 7 second-feet August 14, 1926 (gage height 1.54 feet).

REMARKS.—Records good. Gage-height record and part of discharge measurements furnished by Mahoning Valley Sanitary District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	545	121	43	304	92	68	38	35	21	34	17
2	209	235	87	41	164	82	82	34	28	16	29	17
3	304	170	67	44	151	67	104	38	27	870	24	19
4	222	109	66	44	235	58	87	34	56	525	19	12
5	470	82	49	55	196	65	151	47	157	92	26	12
6	1,720	76	46	43	625	196	209	41	55	45	13	15
7	454	70	49	43	565	438	92	33	38	104	36	31
8	222	58	66	59	222	645	65	28	30	121	196	14
9	133	109	139	40	157	333	55	35	28	50	170	14
10	87	248	98	41	121	164	51	28	25	34	50	20
11	92	139	92	40	104	115	46	40	27	27	34	12
12	127	87	82	47	59	109	41	41	25	24	25	26
13	70	76	183	42	42	109	40	33	25	22	26	26
14	66	70	545	40	127	290	42	35	32	25	23	30
15	57	69	235	52	487	333	41	38	31	32	23	34
16	47	470	133	44	248	145	39	82	23	30	24	21
17	46	845	92	45	333	98	52	133	23	24	27	15
18	109	248	56	37	209	109	45	76	25	29	35	13
19	318	145	36	127	127	262	41	196	42	24	18	19
20	133	109	38	1,200	73	1,050	42	348	36	27	25	20
21	121	87	42	1,050	67	2,120	36	121	29	22	18	16
22	127	76	44	1,360	67	1,110	35	58	25	33	23	16
23	290	75	46	1,240	164	276	33	57	30	470	22	16
24	235	74	57	625	625	164	34	145	38	318	16	18
25	1,970	92	72	318	487	133	38	170	35	82	19	14
26	1,400	127	56	209	545	109	47	157	82	47	19	16
27	318	196	64	145	318	145	92	164	51	33	14	14
28	157	157	45	82	151	115	98	82	33	32	17	15
29	139	104	43	115	------	92	58	49	25	36	16	14
30	222	164	42	770	------	76	46	42	26	26	16	16
31	506	------	42	900	------	72	------	41	------	32	19	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,970	46	338	3.48	4.01
November	845	58	170	1.75	1.95
December	545	36	91.4	.942	1.09
January	1,360	37	289	2.98	3.44
February	625	42	249	2.57	2.68
March	2,120	58	296	3.05	3.52
April	209	33	63.7	.657	.73
May	348	28	79.5	.820	.94
June	157	23	38.1	.393	.44
July	870	21	106	1.09	1.26
August	196	13	34.1	.352	.41
September	34	12	18.1	.187	.21
The year	2,120	12	148	1.53	20.63

MOSQUITO CREEK NEAR CORTLAND, OHIO

LOCATION.—Staff gage at highway bridge one-eighth mile above Erie Railroad crossing and 3 miles southwest of Cortland, Trumbull County. Zero of gage is 867.43 feet above mean sea level.

DRAINAGE AREA.—97.6 square miles.

RECORDS AVAILABLE.—May, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,340 second-feet January 22 (gage height, 10.0 feet); minimum, 0.4 second-foot September 17 and 18 (gage height, 2.04 feet).

1926–27: Maximum and minimum dicharge occurred during 1927.

REMARKS.—Records good. Gage-height record and part of discharge measurements furnished by Mahoning Valley Sanitary District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	197	490	155	34	320	209	31	18	17	3.6	4.4	1.6
2	175	430	126	34	410	117	34	13	12	3.6	2.9	1.7
3	155	370	99	33	320	66	52	8.1	8.6	3.2	2.2	1.4
4	165	275	82	34	209	39	108	12	20	1.8	1.7	1.0
5	350	186	82	35	186	19	165	16	52	1.2	1.5	.8
6	490	135	56	37	247	27	197	21	52	1.2	1.5	.7
7	740	99	35	39	335	74	221	24	42	1.5	2.4	.7
8	740	70	32	39	370	197	175	21	27	1.4	13	.6
9	580	66	45	38	335	370	82	14	17	1.4	12	.5
10	430	108	59	37	275	335	32	11	14	1.4	8.1	.5
11	261	99	74	35	221	247	20	9.5	12	1.4	5.2	.5
12	175	117	82	33	175	155	15	8.6	8.4	1.4	3.2	.5
13	117	117	186	34	82	99	12	8.6	12	1.2	2.2	.5
14	99	90	370	35	145	99	9.2	8.9	15	1.2	2.0	.5
15	90	70	305	34	234	155	7.7	10	12	1.1	2.2	.4
16	78	470	275	34	335	186	7.2	37	8.4	1.1	1.7	.4
17	62	630	261	33	320	135	8.4	82	6.5	1.0	1.3	.4
18	66	710	175	35	275	99	8.6	126	5.8	1.0	1.0	.4
19	99	510	90	126	247	165	8.4	221	5.6	.9	.9	.5
20	117	335	56	450	197	680	7.7	234	5.6	.7	.9	.5
21	135	197	38	1,010	135	1,070	7.0	186	5.9	.7	.9	.5
22	155	135	34	1,310	90	1,010	6.8	155	7.7	2.3	.7	.5
23	209	99	33	1,220	155	605	6.5	108	16	8.1	.7	.5
24	197	82	38	1,010	275	320	5.9	99	13	21	.7	.5
25	980	78	45	740	390	155	5.4	221	9.8	66	.7	.5
26	1,100	108	42	450	630	90	7.7	370	11	82	.6	.5
27	920	197	39	275	530	90	13	290	7.9	66	.6	.5
28	605	186	36	155	335	78	26	155	6.3	24	.6	.5
29	410	197	34	90	------	70	33	74	4.9	10	.8	.5
30	320	209	33	155	------	59	27	32	3.8	6.8	1.0	.5
31	555	------	34	234	------	42	------	24	------	5.8	1.4	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,100	62	347	3.56	4.10
November	710	66	229	2.35	2.62
December	370	32	98.4	1.01	1.16
January	1,310	33	253	2.59	2.99
February	630	82	278	2.85	2.97
March	1,070	19	228	2.34	2.70
April	221	5.4	44.6	.457	.51
May	370	8.1	84.4	.865	1.00
June	52	3.8	14.6	.150	.17
July	82	.7	10.5	.108	.12
August	13	.6	2.55	.026	.03
September	1.7	.4	.637	.007	.01
The year	1,310	.4	132	1.35	18.38

MEANDER CREEK AT OHLSTOWN, OHIO

LOCATION.—Staff gage 1,500 feet above highway bridge at Ohlstown, Trumbull County. Zero of gage is 866.35 feet above mean sea level.

DRAINAGE AREA.—77.2 square miles.

RECORDS AVAILABLE.—May, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,110 second-feet January 20 and March 20 (gage height, 7.4 feet); minimum, 1.8 second-feet September 28 (gage height, 0.88 foot).

1926–27: Maximum and minimum discharge occurred during 1927.

REMARKS.—Records good, except those for extremely high water and for periods of ice effect which are fair. Discharge estimated December 30 to January 21 and January 26 because of ice effect. Gage-height record and part of discharge measurements furnished by Mahoning Valley Sanitary District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	342	78		63	64	66	19	15	9.0	121	5.8
2	110	183	54		58	51	590	17	12	6.8	54	4.8
3	105	160	46		55	43	265	15	11	8.4	28	4.0
4	72	121	40		129	42	114	23	50	7.9	16	4.0
5	91	86	37	40	250	28	78	22	133	6.3	11	4.0
6	424	60	35		1,150	42	66	16	46	18	8.4	3.6
7	250	46	38		342	89	46	14	25	138	6.8	3.2
8	100	37	45		144	183	35	12	17	89	7.4	3.2
9	58	90	98		116	160	30	11	14	33	11	3.2
10	50	374	89		86	295	26	12	12	15	9.0	3.2
11	45	160	70		58	280	22	15	11	11	7.9	4.4
12	56	73	53		51	265	18	13	11	9.0	6.8	4.4
13	47	60	358		43	250	20	10	9.6	7.4	5.8	5.3
14	31	48	550		35	183	23	10	9.0	5.8	6.3	4.8
15	31	42	74	20	43	129	18	24	10	4.8	11	4.0
16	29	1,210	45		140	73	20	58	8.4	4.8	9.0	3.2
17	33	374	40		236	54	24	77	7.4	4.8	7.9	2.4
18	72	146	29		140	58	26	48	7.9	4.8	6.8	3.2
19	183	89	21	400	74	160	22	630	30	4.4	7.4	11
20	81	67	26	1,000	54	1,820	18	236	48	4.0	10	9.0
21	55	54	26	1,000	49	1,570	16	88	22	4.0	9.0	5.3
22	50	48	26	1,390	84	295	17	53	12	23	7.9	4.0
23	68	43	23	265	171	135	15	35	38	86	6.8	3.2
24	310	39	30	160	390	97	14	37	30	38	16	2.8
25	2,100	43	53	90	280	84	13	56	20	25	26	2.4
26	310	88	133	80	475	80	15	51	236	15	11	2.1
27	160	89	110	69	95	86	32	34	76	9.6	6.3	2.1
28	92	67	94	35	63	67	94	24	23	11	4.8	1.8
29	183	66	83	118	------	54	42	18	15	9.6	9.0	3.6
30	390	110	70	250	------	48	25	16	12	8.4	8.4	3.2
31	900	------	60	112	------	42	------	17	------	171	7.9	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,100	29	211	2.74	3.16
November	1,210	37	147	1.91	2.13
December	550	21	81.7	1.06	1.22
January	1,390	------	178	2.31	2.66
February	1,150	35	174	2.26	2.35
March	1,820	28	220	2.85	3.29
April	590	13	60.3	.781	.87
May	630	10	55.2	.715	.82
June	236	7.4	32.4	.420	.47
July	171	4.0	25.6	.332	.38
August	121	4.8	15.0	.194	.22
September	11	1.8	4.04	.052	.06
The year	2,100	1.8	100	1.30	17.03

LITTLE BEAVER CREEK BASIN

LITTLE BEAVER CREEK NEAR EAST LIVERPOOL, OHIO

LOCATION.—Water-stage recorder at highway bridge known as Grimms Bridge 4 miles northeast of East Liverpool, Columbiana County.

DRAINAGE AREA.—505 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,800 second-feet January 19 (gage height, 11.6 feet); minimum, 35 second-feet September 28 and 30 (gage height, 2.19 feet).

1915–1927: Maximum discharge, 16,300 second-feet January 16, 1924 (gage height, 13.7 feet); minimum, 12 second-feet August 22 and 26, 1918 (gage height, 1.78 feet).

Highest known flood reached gage height of about 20 feet.

REMARKS.—Records excellent except those for periods of ice effect, which are fair. Discharge estimated because of ice effect December 6, 7, 18–26, January 6–19, and 27–29.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	730	2,160	780	448	915	1,060	711	345	428	128	1,660	70
2	1,060	1,740	635	362	830	830	2,160	298	361	114	895	62
3	885	1,250	545	430	730	635	1,740	283	298	102	464	55
4	680	940	545	430	940	545	1,250	329	2,020	98	314	49
5	795	780	485	200	1,700	545	1,120	345	2,930	92	239	42
6	2,060	680	260		2,950	680	940	283	1,500	90	172	40
7	1,380	590	270		2,650	830	730	254	830	172	160	40
8	885	505	730		1,660	1,180	635	239	590	254	160	42
9	635	1,480	730		1,250	1,060	635	283	464	172	160	45
10	545	2,350	680		1,060	780	590	283	394	114	128	57
11	465	1,450	680		830	680	483	314	628	94	104	70
12	430	940	590		730	635	428	254	378	82	95	57
13	395	780	1,280	260	680	590	428	239	314	74	86	76
14	362	730	2,450		1,520	1,130	464	225	378	65	190	78
15	330	635	1,380		1,980	1,180	378	283	411	61	378	62
16	300	3,480	680		1,590	885	361	345	298	66	198	55
17	315	3,060	590		1,590	730	394	428	254	70	138	45
18	465	1,900			1,520	780	361	411	328	66	128	59
19	680	1,380			1,250	1,500	329	4,820	545	61	138	138
20	505	1,060		7,440	1,000	4,880	314	3,250	483	54	149	116
21	412	885		4,750	940	8,310	283	1,610	361	112	149	87
22	362	730	310	8,160	780	4,590	394	940	283	411	149	65
23	378	635		4,430	1,850	2,250	329	730	230	524	107	55
24	564	590		2,240	3,430	1,520	283	830	211	345	87	49
25	3,850	545		1,320	2,800	1,180	268	1,520	211	211	78	45
26	2,950	635		940	2,950	1,000	283	1,450	420	138	69	40
27	1,740	830	730		1,820	940	461	1,180	298	102	60	42
28	1,000	635	680	750	1,320	780	780	780	225	105	57	37
29	885	590	545		-------	680	524	635	172	114	56	36
30	1,180	940	448	2,350	-------	635	428	545	149	308	70	35
31	1,940	-------	448	1,380	-------	635	-------	483	-------	1,790	74	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,850	300	941	1.86	2.14
November	3,480	505	1,160	2.30	2.57
December	2,450	----------	611	1.21	1.40
January	8,160	----------	1,320	2.61	3.01
February	3,430	680	1,550	3.07	3.20
March	8,310	545	1,410	2.79	3.22
April	2,160	268	616	1.22	1.36
May	4,820	225	781	1.55	1.79
June	2,930	149	547	1.08	1.20
July	1,790	54	200	.396	.46
August	1,660	56	223	.442	.51
September	138	35	58.3	.115	.13
The year	8,310	35	780	1.54	20.99

YELLOW CREEK BASIN

YELLOW CREEK AT HAMMONDSVILLE, OHIO

LOCATION.—Tape gage on highway bridge a fifth of a mile southwest of Hammondsville, Jefferson County, and 1,000 feet above North Fork.

DRAINAGE AREA.—169 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,650 second-feet January 22 (gage height, 10.2 feet); minimum, 4.6 second-feet September 18 (gage height, 2.62 feet).

1915–1927: Maximum discharge, 7,710 second-feet June 17, 1920 (gage height, 13.2 feet); minimum, 0.6 second-foot August 29, 1916, August 27, 1925, and August 10 and 11, 1926.

Highest flood known reached a stage of about 16 feet.

REMARKS.—Records good except those for periods of ice effect, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		870		208	292	328	350	175	126	58	490	13
2		655		196	260	251	1,170	138	109	50	194	10
3		390	[a] 240	234	243	164	700	112	86	53	112	8.5
4	[a] 360	321		184	260	126	540	132	1,290	44	86	8.5
5		261	208	208	305	132	465	158	645	32	65	6.7
6		234	221	173	465	201	372	138	350	38	50	5.8
7	372	208	306	196	440	274	305	114	282	39	42	6.1
8	290	173	234		372	440	226	126	230	35	55	10
9	248	810	221		296	287	198	151	178	30	44	10
10	221	810	208		243	217	269	151	141	24	28	28
11	208	430	221		209	178	264	141	132	21	24	42
12	173	321	248		168	151	234	151	117	18	24	24
13	173	276	338		171	154	209	114	112	17	20	20
14	162	234	354	[b] 100	490	395	186	120	178	16	69	16
15	152	221	321		565	274	151	171	138	22	141	11
16	143	1,900			465	226	138	209	102	32	48	8.5
17	143	930	[b] 180		465	205	120	201	95	25	34	6.4
18	173	538			465	217	114	178	104	17	34	7.5
19	173	390	1,050		372	515	138	3,660	138	14	42	24
20	162	290	990	2,250	350	3,100	144	930	109	13	38	20
21	152	248	870	2,040	296	3,340	132	465	92	13	24	12
22	143	221	605	3,980	305	1,550	175	350	104	61	20	9.0
23	134	196	755	1,970	700	1,050	151	296	107	1,110	17	6.7
24	234	184	515	810	1,290		126	372	84	138	15	5.5
25	1,550	173	276	540	1,050	[a] 750	117	440	77	89	13	6.7
26	705	208	605	395	1,110		129	465	305	65	11	5.8
27	450	221	248	138	590	700	171	328	132	48	10	6.4
28	306	184	234	278	418	700	138	205	90	35	13	5.8
29	290	196	248	700	-------	540	164	186	73	39	13	7.5
30	321	[a] 240	321	540	-------	226	251	168	64	151	16	5.8
31	1,170	-------	248	440	-------	201	-------	151	-------	515	17	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,550	134	336	1.99	2.29
November	1,900	173	411	2.43	2.71
December	1,050	----------	366	2.17	2.50
January	3,980	----------	538	3.18	3.67
February	1,290	168	452	2.67	2.78
March	3,340	126	593	3.51	4.05
April	1,170	114	262	1.55	1.73
May	3,660	112	345	2.04	2.35
June	1,290	64	193	1.14	1.27
July	1,110	13	110	.651	.75
August	490	10	58.4	.346	.40
September	42	5.5	11.9	.070	.08
The year	3,980	5.5	306	1.81	24.58

[a] Estimated because of missing gage-height record.
[b] Estimated because of ice effect.

LITTLE MUSKINGUM RIVER BASIN

LITTLE MUSKINGUM RIVER AT FAY, OHIO

LOCATION.—Staff gage in SE. ¼ sec. 10, T. 3 N., R. 7 W., 300 feet above Buckeye Pipe Line Co.'s pumping station and 1 mile northwest of Fay. Zero of gage is 612.71 feet above mean sea level.

DRAINAGE AREA.—259 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1922, and October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year 5,880 second-feet January 22 (gage height, 14.8 feet); minimum, 7.0 second-feet September 27 and 28 (gage height, 1.00 foot).

1915–1922, 1925–1927: Maximum discharge not determined; maximum gage height, 22.5 feet November 27, 1919; minimum discharge, 2.0 second-feet October 1 and 2, 1925.

Highest flood known reached a stage of about 23 feet.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	520	2,890	895	195	284	430	2,320	760	312	70	610	11
2	760	1,000	670	183	284	340	1,490	550	298	102	520	10
3	640	610	550	160	460	312	640	550	270	219	219	9.4
4	312	490	460	139	460	790	490	490	430	132	114	9
5	284	430	490	460	370	1,210	460	430	4,180	87	79	11
6	257	340	1,880	430	340	1,040	430	370	580	73	54	10
7	207	244	965	340	326	965	370	355	370	61	44	9
8	183	207	860	298	312	730	400	340	231	54	1,040	8.6
9	160	700	730	257	298	550	550	312	141	40	430	8.2
10	139	640	640	219	284	370	490	312	108	34	161	9.4
11	127	520	610	207	257	340	550	430	102	28	76	11
12	108	430	610	183	257	312	490	430	90	26	50	18
13	98	312	520	160	3,260	284	520	520	73	24	38	43
14	91	231	430	135	1,760	1,490	430	490	105	26	34	41
15	82	183	370	123	860	790	400	580	670	71	33	36
16	74	3,750	312	160	730	550	312	1,210	860	61	28	30
17	64	790	284	172	580	490	257	1,280	730	44	27	23
18	56	520	257	172	490	430	207	3,470	580	30	34	19
19	48	400	257	400	430	2,360	195	1,490	257	26	27	17
20	42	355	340	2,890	370	3,160	183	670	137	24	27	16
21	33	284	370	3,520	312	1,560	161	370	105	22	38	15
22	27	231	930	5,120	460	1,240	161	257	108	90	34	13
23	27	207	930	3,990	2,660	1,040	141	231	108	98	34	13
24	71	207	860	2,040	3,750	930	137	207	104	76	34	11
25	2,760	183	490	790	1,760	610	122	257	93	61	26	11
26	1,180	160	1,320	580	1,320	284	112	340	400	50	21	9.4
27	430	139	670	550	1,070	219	141	312	244	36	18	7.8
28	284	123	550	520	730	207	355	284	207	26	16	7.8
29	370	110	355	550	------	183	257	257	151	37	15	8.6
30	610	670	298	490	------	183	1,210	298	108	38	13	7.8
31	1,720	------	219	312	------	257	------	340	------	1,640	11	------

Month	Maximum	Minimum	Mean	Per square mile	Run off in inches
October	2,760	27	379	1.46	1.68
November	3,750	110	579	2.24	2.50
December	1,880	219	617	2.38	2.74
January	5,120	123	830	3.20	3.69
February	3,750	257	874	3.37	3.51
March	3,160	183	763	2.95	3.40
April	2,320	112	466	1.80	2.01
May	3,470	207	587	2.27	2.62
June	4,180	73	405	1.56	1.74
July	1,640	22	110	.425	.49
August	1,040	11	126	.486	.56
September	43	7.8	15.1	.058	.06
The year	5,120	7.8	477	1.84	25.00

MUSKINGUM RIVER BASIN

TUSCARAWAS RIVER AT CLINTON, OHIO

LOCATION.—Chain gage in NW. ¼ sec. 32, T. 14 N., R. 10 W., at highway bridge at Clinton 1 mile above mouth of Chippewa Creek.

DRAINAGE AREA.—165 square miles.

RECORDS AVAILABLE.—May, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 952 second-feet March 22 (gage height, 7.8 feet); minimum, 17 second-feet September 25 (gage height, 0.92 foot).

1926–27: Maximum and minimum discharge occurred during 1927.

REMARKS.—Records good except those for extremely low water, which are fair. Ohio Canal diverts small amount of water from Tuscarawas River at Portage Lakes, 3 miles south of Akron. Part of the diverted water flows into Cuyahoga River Basin and part flows past this gaging station. See miscellaneous discharge measurements of Ohio Canal. Flow slightly regulated at headwaters of this stream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	622	246	96	329	259	170	98	94	43	48	24
2	233	590	220	101	246	169	207	86	78	41	49	22
3	273	510	181	96	220	133	233	86	70	37	46	24
4	233	388	116	101	246	116	207	90	159	34	40	24
5	246	315	101	106	329	106	207	90	194	32	35	22
6	329	246	86	106	526	169	207	78	138	41	32	21
7	448	207	91	86	606	246	194	66	106	48	31	21
8	418	181	122	82	558	329	159	63	90	41	102	24
9	315	220	157	82	403	343	148	52	74	36	66	24
10	246	329	157	78	301	259	119	66	78	35	52	32
11	181	343	151	69	233	207	106	74	90	3[illegible]	46	28
12	181	220	157	58	181	157	102	60	70	32	38	22
13	122	157	181	58	145	169	106	56	56	33	34	27
14	101	145	315	65	194	315	110	66	63	29	48	34
15	91	157	301	62	315	448	102	102	60	30	39	31
16	82	343	194	58	388	448	94	148	56	32	34	28
17	96	433	128	58	373	301	119	194	47	3[illegible]	30	26
18	122	478	82	51	358	246	110	233	52	3[illegible]	29	44
19	207	388	65	315	301	343	98	510	66	30	31	36
20	169	315	62	622	194	606	90	655	56	3[illegible]	31	28
21	128	246	69	723	96	862	86	638	52	66	28	24
22	101	194	78	774	157	934	82	478	45	9[illegible]	28	26
23	145	151	86	757	220	774	78	287	159	8[illegible]	27	22
24	246	106	101	672	315	606	74	287	119	70	40	23
25	433	151	111	510	388	448	66	388	102	70	33	17
26	558	194	122	287	433	358	98	358	102	56	29	20
27	606	233	133	169	403	273	138	315	82	44	28	19
28	526	220	128	128	329	246	194	246	70	40	26	21
29	494	207	111	169	------	233	182	159	56	45	24	21
30	510	246	101	315	------	194	148	114	46	3[illegible]	25	21
31	606	------	101	373	------	170	------	110	------	44	25	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	606	82	277	May	655	52	202
November	622	106	284	June	194	45	84.3
December	315	62	137	July	94	29	43.6
January	774	51	233	August	102	24	37.9
February	606	96	314	September	44	17	25.2
March	934	106	338				
April	233	66	134	The year	934	17	175

TUSCARAWAS RIVER AT CRYSTAL SPRING, OHIO

LOCATION.—Chain gage in NW. ¼ sec. 30, T. 11 N., R. 9 W., at highway bridge at Crystal Spring.

DRAINAGE AREA.—430 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,350 second-feet March 22 (gage height, 12.8 feet); minimum, 48 second-feet July 16 (gage height, 2.00 feet).

1921–1927: Maximum and minimum discharge occurred during 1927. Flood of March 26, 1913, reached a stage of 24.4 feet.

REMARKS.—Records fair. The Ohio Canal diverts small amount of water from Tuscarawas River at Portage Lakes, 3 miles south of Akron. Part of diverted water flows into Cuyahoga River Basin. For diversion past this gaging station by the Ohio Canal see list of miscellaneous measurements. Flow slightly regulated at headwaters of this stream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	595	1,980	540	274	825	679	464	221	128	142	274	122
2	855	1,500	514	274	567	514	679	174	115	122	623	142
3	765	1,260	390	263	489	439	679	135	98	109	514	115
4	595	1,080	274	252	765	366	567	115	263	98	366	92
5	489	980	242	242	915	342	464	128	623	92	242	77
6	679	825	242	231	1,540	464	567	122	489	82	109	68
7	915	679	231	221	1,700	679	489	109	342	82	92	63
8	885	567	211	211	1,580	915	366	98	183	98	82	72
9	765	489	211	211	1,160	825	319	115	103	92	82	98
10	623	514	221	202	795	765	319	115	92	87	135	135
11	464	464	231	192	567	679	221	109	115	77	109	150
12	263	414	231	183	464	514	174	109	92	72	92	150
13	221	366	242	174	464	414	150	98	82	68	92	142
14	202	319	263	166	567	679	157	87	77	59	109	135
15	157	296	252	157	1,120	1,220	183	92	82	55	122	128
16	142	274	263	142	1,050	1,120	183	122	77	48	109	115
17	135	366	274	128	1,120	735	221	157	72	68	92	115
18	128	464	296	115	1,050	679	202	296	72	82	92	115
19	128	514	296	825	651	1,050	183	1,260	98	77	87	142
20	142	439	296	2,420	623	2,020	183	1,840	103	82	98	202
21	192	366	296	2,740	651	3,700	150	1,840	87	82	109	183
22	192	319	296	3,250	595	4,300	135	1,420	77	87	103	150
23	202	319	319	2,780	595	3,700	135	855	98	166	98	128
24	342	342	390	2,600	1,080	2,740	128	735	157	174	92	98
25	735	439	464	2,060	1,190	1,580	115	735	183	142	109	82
26	1,300	414	464	1,160	1,260	1,160	109	980	263	122	135	87
27	1,540	489	464	489	1,380	795	128	735	274	115	122	87
28	1,460	514	414	366	1,300	651	157	595	242	109	115	82
29	1,380	414	366	489	-------	595	202	595	202	103	115	82
30	1,580	540	319	1,020	-------	514	242	274	157	98	109	92
31	1,880	-------	274	1,120	-------	464	-------	166	-------	135	103	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	1,880	128	644	May	1,840	87	466
November	1,980	274	598	June	623	72	168
December	540	211	316	July	174	48	97.6
January	3,250	115	805	August	623	82	136
February	1,700	464	931	September	202	63	115
March	4,300	342	1,140				
April	679	109	276	The year	4,300	48	472

TUSCARAWAS RIVER NEAR DOVER, OHIO

LOCATION.—Chain gage in T. 9 N., R. 2 W., on highway bridge 2½ miles northeast of Dover.

DRAINAGE AREA.—1,400 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 18,500 second-feet March 22 (gage height, 12.2 feet); minimum, 234 second-feet September 22 (gage height, 0.60 foot).

1923–1927: Maximum discharge, that of March 22, 1927; minimum, 125 second-feet November 15, 1923.

REMARKS.—Records fair. Discharge estimated December 7, 16–23, and January 9–19 because of ice effect. Small amount of water diverted into Cuyahoga River Basin by Ohio Canal. There is no appreciable flow in Ohio Canal at this gaging station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jnne	July	Aug.	Sept.
1	1,590	6,400	2,070	950	2,530	2,770	1,930	1,020	1,140	650	2,770	328
2	2,190	5,450	1,590	910	2,410	2,050	4,470	1,020	1,020	625	1,410	328
3	2,560	4,560	1,320	910	2,170	1,820	4,330	910	945	680	805	315
4	2,070	3,210	1,160	950	2,770	1,610	2,890	875	1,610	710	650	271
5	2,190	2,190	1,260	1,160	3,410	1,410	2,650	875	5,480	625	550	271
6	4,140	1,830	1,320	1,070	5,780	1,410	2,410	770	3,280	600	485	261
7	4,140	1,590	1,240	990	5,480	2,290	1,930	680	1,710	600	465	246
8	2,950	1,480	1,160	910	4,890	2,890	1,610	625	1,410	650	485	268
9	2,190	2,310	1,420		3,670	2,890	1,610	805	1,230	575	625	292
10	1,590	3,600	1,370		3,020	2,410	1,710	945	1,060	415	505	279
11	1,370	2,560	1,370		2,410	1,820	1,320	945	1,060	400	465	292
12	1,210	1,830	1,370		2,050	1,710	1,230	875	1,020	385	448	292
13	1,030	1,590	1,830		1,820	1,610	1,230	875	910	370	448	335
14	950	1,420	3,470	1,000	3,020	2,170	1,320	840	875	385	448	335
15	840	1,260	2,820		4,750	3,150	1,230	945	980	415	740	335
16	810	3,340			3,930	2,770	1,140	1,230	840	400	600	320
17	750	5,150			3,800	2,290	1,320	1,410	680	448	485	305
18	750	4,140			3,670	2,530	1,230	1,320	710	400	485	320
19	910	3,340			3,020	3,280	1,060	5,330	980	385	430	405
20	875	2,690	1,300	13,100	2,530	7,870	875	9,450	945	370	415	305
21	780	2,070		15,700	2,170	15,700	840	6,080	805	370	625	256
22	695	1,710		13,700	2,050	18,000	875	3,020	710	528	505	236
23	695	1,420		15,500	3,020	12,700	875	2,170	770	1,510	430	268
24	1,070	1,320	1,120	10,400	5,180	8,550	840	2,530	740	1,060	400	279
25	6,400	1,210	1,420	6,400	5,330	5,330	770	2,650	710	625	385	279
26	6,560	1,370	2,560	4,190	6,240	3,410	770	3,020	2,530	465	370	292
27	5,000	2,070	2,070	2,290	5,030	3,020	840	2,650	1,410	430	328	268
28	3,340	1,590	1,590	2,050	3,800	2,530	1,140	1,930	875	400	304	256
29	3,730	1,320	1,420	2,770	------	2,050	1,060	1,610	650	385	292	305
30	4,700	2,070	1,120	4,610	------	1,820	1,230	1,410	550	415	292	388
31	5,920	------	1,030	4,190	------	1,820	------	1,320	------	2,650	328	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,560	695	2,390	1.71	1.97
November	6,400	1,210	2,540	1.81	2.02
December	3,470	----------	1,530	1.09	1.26
January	15,700	----------	3,670	2.62	3.02
February	6,240	1,820	3,570	2.55	2.66
March	18,000	1,410	4,050	2.89	3.33
April	4,470	770	1,560	1.11	1.24
May	9,450	625	1,940	1.39	1.60
June	5,480	550	1,250	.893	1.00
July	2,650	370	611	.437	.50
August	2,770	292	580	.414	.48
September	405	236	298	.213	.24
The year	18,000	236	1,990	1.42	19.32

TUSCARAWAS RIVER AT NEWCOMERSTOWN, OHIO

LOCATION.—Water-stage recorder in T. 5 N., R. 3 W., at highway bridge three-fourths mile east of Newcomerstown. Zero of gage is 775.03 feet above mean sea level.

DRAINAGE AREA.—2,430 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 22,800 second-feet March 23 (gage height, 13.1 feet); minimum, 332 second-feet September 8 (gage height, 1.17 feet).

1921–1927: Maximum discharge, that of March 23, 1927; minimum, 227 second-feet June 23, 1925 (gage height, 1.10 feet).

Flood of March, 1913, reached stage of about 21.5 feet (discharge estimated at 130,000 second-feet).

REMARKS.—Records excellent. Small amount of water is diverted into Cuyahoga River Basin by the Ohio Canal at Portage Lakes.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,450	10,000	3,990	2,600	6,730	6,730	3,280	2,770	2,280	1,180	4,530	485
2	4,170	10,200	4,170	2,440	5,250	5,070	6,350	2,440	1,970	1,060	3,810	485
3	5,070	8,820	3,630	3,120	4,530	3,990	8,630	1,970	1,830	1,180	2,120	450
4	4,710	7,110	3,110	2,120	4,350	3,280	7,680	1,690	1,560	1,240	1,360	450
5	4,170	5,430	2,770	2,440	4,890	2,940	5,970	1,830	3,110	1,000	1,120	408
6	6,350	4,170	2,770	2,600	6,730	2,940	4,890	1,970	8,250	830	940	402
7	7,680	3,450	3,110	2,440	8,440	3,280	4,170	1,690	7,490	730	830	370
8	6,160	2,940	3,110	1,830	8,060	3,990	3,450	1,560	4,530	780	730	344
9	4,530	2,770	3,280	1,690	6,350	4,890	3,110	1,500	3,280	885	830	396
10	3,450	4,170	3,450	1,690	5,430	4,890	3,450	1,560	2,440	830	1,060	402
11	2,770	5,430	3,450	1,560	4,530	4,170	3,630	1,690	2,120	685	830	485
12	2,440	4,530	3,280	1,500	3,810	3,450	2,940	1,830	1,830	640	685	560
13	2,280	3,630	3,110	1,360	3,450	3,110	2,770	1,560	1,690	600	640	640
14	2,120	3,110	5,070	1,500	3,810	3,110	2,770	1,430	1,500	600	640	685
15	1,970	2,770	5,430	1,830	6,350	5,070	2,770	1,430	1,430	600	830	685
16	1,830	3,990	3,450	1,690	7,490	5,250	2,440	1,560	1,560	600	1,060	600
17	1,690	8,250	2,440	1,500	6,920	4,530	2,280	1,970	1,560	640	830	520
18	1,560	8,250	2,280	1,560	6,540	3,810	2,440	2,280	1,360	685	685	520
19	1,690	7,300	1,970	2,940	6,160	4,710	2,280	2,440	1,240	600	560	600
20	1,830	6,160	1,830	11,800	5,430	9,410	2,120	8,240	1,360	560	640	780
21	1,690	4,710	1,970	18,600	4,530	15,100	1,970	11,800	1,560	560	730	685
22	1,560	3,810	2,120	21,200	4,170	21,200	1,830	10,000	1,360	730	1,000	560
23	1,500	3,110	2,120	21,200	4,530	22,100	1,690	5,790	1,300	2,510	830	415
24	1,690	2,770	2,120	21,200	7,680	18,600	1,690	4,530	1,500	3,450	640	415
25	5,970	2,600	2,440	17,000	9,010	13,000	1,690	4,170	1,500	2,280	560	408
26	10,000	2,600	3,810	11,400	9,810	8,250	1,560	4,170	3,220	1,360	560	389
27	10,000	3,110	5,070	7,680	10,200	5,790	1,560	4,710	4,890	940	520	363
28	7,110	3,630	4,350	5,250	8,630	4,890	1,690	4,530	3,110	780	520	376
29	5,610	3,280	3,810	4,710	-------	4,170	2,120	3,810	2,120	685	485	389
30	6,350	3,110	3,280	7,300	-------	3,630	2,280	2,940	1,560	640	450	382
31	7,870	-------	2,770	8,440	-------	3,280	-------	2,440	-------	1,660	485	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	10,000	1,500	4,170	1.72	1.98
November	10,200	2,600	4,840	1.99	2.22
December	5,430	1,830	3,210	1.32	1.52
January	21,200	1,360	6,230	2.56	2.95
February	10,200	3,450	6,210	2.56	2.67
March	22,100	2,940	6,730	2.77	3.19
April	8,630	1,560	3,180	1.31	1.46
May	11,800	1,430	3,300	1.36	1.57
June	8,250	1,240	2,480	1.02	1.14
July	3,450	560	1,020	.420	.48
August	4,530	450	1,020	.420	.48
September	780	344	488	.201	.22
The year	22,100	344	3,560	1.47	19.88

MUSKINGUM RIVER AT DRESDEN, OHIO

LOCATION.—Water-stage recorder at highway bridge half a mile east of Dresden, Muskingum County, and half a mile below Wakatomika Creek. Zero of gage is 693.15 feet above mean sea level.

DRAINAGE AREA.—5,980 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, about 55,500 second-feet March 23 (gage height, 26.0 feet); minimum, 880 second-feet September 8 (gage height, 4.10 feet).

1921–1927: Maximum discharge, that of March 23, 1927; minimum, 335 second-feet June 25, 1925 (gage height, 2.73 feet).

Maximum stage known from high-water mark, about 46.0 feet, revised value, March, 1913 (discharge estimated at 160,000 second-feet).

REMARKS.—Records excellent except those for period of ice effect, January 11–19, which are fair. Occasionally slight regulation at Dam No. 11, 7 miles below gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,920	25,700	10,400	6,740	18,400	16,400	9,110	7,450	8,170	2,940	6,230	1,200
2	9,680	24,200	10,400	6,230	14,500	12,600	17,200	6,910	6,570	2,520	6,400	1,200
3	13,500	21,600	8,920	5,750	12,100	9,680	20,800	5,750	5,750	4,630	4,630	1,110
4	13,500	18,400	7,450	5,430	11,900	8,170	18,900	5,110	5,590	6,070	3,240	1,030
5	13,000	14,500	7,090	5,750	13,500	7,090	15,900	5,110	17,600	3,540	2,520	1,030
6	19,700	11,000	7,630	6,400	17,400	6,910	14,000	5,590	21,300	2,660	2,140	950
7	20,500	8,730	8,350	6,400	20,500	8,170	11,700	5,110	16,900	2,260	1,900	950
8	17,200	7,450	8,350	5,430	19,400	10,100	9,870	4,340	12,100	2,140	1,790	950
9	12,400	7,090	8,170	4,400	16,200	11,900	9,110	3,990	9,300	2,140	2,800	1,030
10	9,490	9,300	8,350	4,260	13,500	11,900	10,100	4,310	6,910	2,020	2,520	1,110
11	7,810	12,100	7,990		11,500	10,100	10,600	4,640	5,590	2,260	2,140	1,200
12	6,740	11,300	7,630		9,870	8,540	9,300	4,470	3,390	2,940	1,790	1,290
13	5,910	9,300	7,450		8,920	7,450	8,170	4,150	2,940	2,020	1,680	1,480
14	5,430	7,450	9,680	3,500	9,490	8,920	7,810	3,690	3,990	1,790	1,580	1,900
15	4,980	6,740	12,100		13,800	15,200	7,630	3,690	4,150	1,790	1,790	2,390
16	4,680	9,680	9,110		17,600	14,700	7,090	4,150	4,470	2,140	2,020	1,790
17	4,260	17,400	6,070		16,900	11,900	6,740	4,790	4,470	2,020	1,790	1,580
18	3,980	19,400	5,280	6,000	16,200	10,400	6,740	5,750	3,840	1,900	1,580	1,380
19	3,840	17,600	4,830	10,000	15,200	13,300	6,400	8,170	3,690	1,900	1,480	1,580
20	3,840	15,200	4,830	31,300	13,300	26,800	5,910	23,900	3,990	1,680	1,380	1,580
21	3,840	12,100	4,830	41,200	11,500	41,200	5,430	29,500	4,150	1,680	1,380	1,480
22	3,560	9,490	4,980	42,700	10,400	52,900	5,110	23,600	3,540	2,140	1,580	1,290
23	3,430	7,810	5,130	50,600	10,800	54,500	4,790	16,200	3,390	4,950	1,680	1,110
24	3,980	6,910	5,430	50,000	16,200	50,600	4,790	12,600	3,090	7,450	1,480	1,030
25	10,800	6,570	5,910	44,900	20,000	41,500	4,630	13,300	3,240	6,070	1,380	1,030
26	19,400	6,740	8,540	37,100	22,200	29,200	4,310	14,700	5,110	3,960	1,380	950
27	20,800	8,920	10,600	24,500	23,300	18,900	4,310	14,000	7,990	2,660	1,290	950
28	17,900	10,200	11,000	16,900	20,200	13,500	4,790	11,700	6,570	2,140	1,200	950
29	14,000	9,110	10,200	15,200	-------	11,300	5,110	9,680	4,630	1,900	1,110	950
30	17,200	8,920	9,110	17,200	-------	9,870	6,570	8,350	3,540	1,790	1,200	950
31	21,600	-------	7,810	21,600	-------	8,920	-------	8,730	-------	3,240	1,200	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,600	3,430	10,500	1.76	2.03
November	25,700	6,570	12,000	2.01	2.24
December	12,100	4,830	7,860	1.31	1.51
January	50,600	-------	15,800	2.64	3.04
February	23,300	8,920	15,200	2.54	2.64
March	54,500	6,910	18,100	3.03	3.49
April	20,800	4,310	8,760	1.46	1.63
May	29,500	3,690	9,140	1.53	1.76
June	21,300	2,940	6,530	1.09	1.22
July	7,450	1,680	2,880	.482	.56
August	6,400	1,110	2,140	.358	.41
September	2,390	950	1,250	.209	.23
The year	54,500	950	9,160	1.53	20.76

MUSKINGUM RIVER AT McCONNELSVILLE, OHIO

LOCATION.—Water-stage recorder in SE. ¼ sec. 11, T. 10 N., R. 12 W., above dam No. 7 at McConnelsville. Zero of gage is at elevation of crest of dam, 650.31 feet above mean sea level.

DRAINAGE AREA.—7,410 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, about 75,600 second-feet March 23 (gage height, 11.8 feet); minimum mean daily discharge, 1,050 second-feet September 9.

1921–1927: Maximum discharge, about 76,600 second-feet (revised) April 16, 1922 (gage height, 11.9 feet); minimum mean daily discharge, 622 second-feet September 5, 1925.

The flood of March, 1913, reached a stage on March 27 corresponding to 33.5 feet present gage datum (discharge estimated at 200,000 second-feet).

REMARKS.—Records good except for extremely high and extremely low stages, for which they are fair. Water diverted around the dam by McConnelsville-Malta Electric Co. and Elk Eye Milling Co. is included in the records. The electric company's plant was shut down after March 12 for repairs. Records of head and operation of turbines furnished by McConnelsville-Malta Electric Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10,400	28,600	10,900	7,960	20,500	18,200	12,500	8,160	8,960	3,590	5,600	1,320
2	11,000	25,700	11,300	7,150	16,200	14,400	18,200	7,760	7,380	3,020	6,280	1,320
3	15,900	23,100	10,000	6,500	14,500	11,200	23,000	6,640	6,640	3,740	5,280	1,320
4	16,900	19,400	8,330	6,180	15,000	8,960	21,100	6,280	11,600	6,640	3,740	1,240
5	15,000	15,800	8,240	7,240	15,000	7,870	17,700	6,280	23,600	4,040	3,160	1,240
6	22,600	12,700	9,540	7,620	18,400	7,420	16,200	5,940	21,700	3,160	2,610	1,150
7	22,400	9,990	8,800	7,620	21,300	7,950	13,400	5,940	17,200	2,740	2,230	1,120
8	19,300	8,780	9,140	6,480	21,300	10,400	11,100	4,960	12,500	2,480	2,100	1,130
9	14,400	8,730	9,200	5,430	17,900	11,700	11,100	4,640	9,380	2,350	2,350	1,050
10	10,900	10,800	9,140	4,800	15,000	12,700	12,500	4,640	7,000	2,480	3,160	1,150
11	9,220	12,200	9,210	4,180	12,600	10,900	12,000	5,280	7,000	2,480	2,610	1,320
12	7,620	12,700	8,740	3,670	10,800	9,110	10,700	4,960	5,280	3,440	2,350	1,410
13	6,900	10,400	8,800	4,020	9,510	8,160	9,380	4,640	4,960	2,740	2,000	1,500
14	6,530	8,780	9,560	4,550	11,600	9,800	8,960	4,340	6,640	2,350	1,890	1,690
15	5,830	7,590	12,200	4,700	14,400	15,200	8,560	4,340	5,280	2,610	1,890	2,000
16	5,520	12,700	10,900	3,790	17,400	16,200	7,760	4,640	4,960	2,480	2,000	2,350
17	5,100	18,400	7,240	3,130	17,400	13,800	7,760	5,280	4,960	2,610	2,230	1,890
18	4,890	20,100	5,360	3,970	17,400	13,800	7,380	7,760	5,280	2,610	2,000	1,600
19	4,570	19,000	4,700	11,700	16,900	18,200	7,000	14,300	5,600	2,350	1,890	1,600
20	4,280	16,400	4,920	43,800	14,900	34,000	6,640	27,000	5,280	2,230	1,690	1,600
21	4,270	13,600	5,520	58,600	13,000	54,800	5,940	30,800	4,960	2,110	1,690	1,600
22	4,300	10,900	6,180	57,600	11,600	72,600	5,600	26,300	4,340	2,610	1,690	1,600
23	3,960	8,800	6,520	65,600	15,400	74,600	5,280	17,700	4,040	5,600	1,790	1,410
24	4,380	7,610	6,190	67,600	20,100	67,600	5,280	14,300	4,040	7,000	1,890	1,240
25	14,300	7,160	6,810	57,600	21,700	55,700	4,960	13,800	3,740	6,640	1,690	1,150
26	19,500	7,600	12,200	47,200	23,600	37,400	4,640	15,700	6,640	4,960	1,600	1,240
27	20,700	9,610	12,200	30,000	24,300	22,400	5,280	14,800	7,760	3,740	1,500	1,150
28	19,500	10,900	12,700	19,300	22,400	15,200	5,280	12,500	7,380	2,880	1,410	1,120
29	15,400	10,400	12,200	18,300	-------	12,500	6,280	10,200	5,280	2,480	1,410	1,150
30	16,400	10,400	10,700	20,100	-------	10,700	8,560	10,200	4,040	2,230	1,320	1,240
31	23,200	-------	9,140	23,600	-------	9,380	-------	9,800	-------	2,880	1,320	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	23,200	3,960	11,800	1.59	1.83
November	28,600	7,160	13,300	1.79	2.00
December	12,700	4,700	8,920	1.20	1.38
January	67,600	3,130	20,000	2.70	3.11
February	24,300	9,510	16,800	2.27	2.36
March	74,600	7,420	22,400	3.02	3.48
April	23,000	4,640	10,000	1.35	1.51
May	30,800	4,340	10,300	1.39	1.60
June	23,600	3,740	7,780	1.05	1.17
July	7,000	2,110	3,330	.449	.52
August	6,280	1,320	2,400	.324	.37
September	2,350	1,050	1,400	.189	.21
The year	74,600	1,050	10,700	1.44	19.54

SANDY CREEK AT SANDYVILLE, OHIO

LOCATION.—Chain gage in sec. 8, T. 10 N., R. 1 W., on highway bridge half a mile south of Sandyville.

DRAINAGE AREA.—481 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,600 second-feet January 20 (gage height, 11.4 feet); minimum, 59 second-feet September 28 (gage height, 1.36 feet).

1923–1927: Maximum discharge, that of January 20, 1927; minimum, 48 second-feet June 24, 1925 (gage height, 1.15 feet).

REMARKS.—Records good except those for extremely high water, for November 2, March 19, 20, and August 28 when gage was not read, and for December 19 when affected by ice, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	595	1,930	595	450	830	880	730	325	360	133	1,350	139
2	1,000	1,540	510	360	730	685	2,020	308	325	174	685	133
3	780	1,140	470	595	730	595	1,210	291	291	231	412	128
4	595	880	470	412	940	510	940	342	830	225	308	102
5	685	730	412	510	1,580	550	830	325	2,200	168	258	123
6	1,580	640	395	412	2,920	640	730	308	830	155	242	123
7	1,210	550	360	378	2,200	780	640	258	550	174	190	102
8	830	510	470	325	1,350	1,070	550	325	470	242	342	107
9	595	595	595	274	1,140	830	640	325	395	127	225	125
10	490	1,000	510	274	940	685	595	342	342	159	187	128
11	450	640	510	274	780	595	510	325	510	136	171	91
12	412	510	470	242	685	595	450	274	342	133	168	139
13	378	470	940	242	685	550	470	258	325	130	162	123
14	342	470	1,580	450	1,350	550	470	274	360	128	274	112
15	325	470	830	378	1,750	880	412	378	342	150	360	115
16	291	2,110	450	325	1,210	730	395	510	291	156	242	107
17	291	1,750	510	325	1,350	640	470	510	258	178	178	107
18	325	1,140	395	274	1,280	685	430	412	258	128	168	65
19	510	940	368	2,400	880	3,860	395	4,730	430	133	181	193
20	378	730	342	11,000	685	7,030	360	4,210	395	130	187	148
21	342	640	395	6,670	730	10,200	325	1,750	308	125	181	120
22	308	550	378	7,510	640	7,170	325	1,000	258	430	187	117
23	342	510	360	5,290	1,140	2,810	325	685	325	375	162	107
24	430	510	430	2,700	2,020	1,660	308	780	325	231	168	102
25	4,340	490	640	1,350	1,660	1,210	291	730	242	193	145	76
26	3,140	595	1,000	1,000	2,300	1,000	308	880	550	159	130	117
27	1,500	685	780	595	1,280	940	360	730	360	139	128	112
28	1,000	510	640	595	1,000	780	450	550	258	139	135	100
29	1,210	510	550	1,500	------	730	395	470	225	128	142	123
30	1,500	780	470	2,200	------	685	395	412	193	139	130	107
31	2,500	------	412	1,280	------	640	------	360	------	2,390	148	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,340	291	925	1.92	2.21
November	2,110	470	818	1.70	1.90
December	1,580	342	556	1.16	1.34
January	11,000	242	1,630	3.39	3.91
February	2,920	640	1,240	2.58	2.69
March	10,200	510	1,650	3.43	3.95
April	2,020	291	558	1.16	1.29
May	4,730	258	774	1.57	1.81
June	2,200	193	438	.911	1.02
July	2,300	125	252	.524	.60
August	1,350	159	256	.532	.61
September	193	6	116	.241	.27
The year	11,000	6	761	1.59	21.60

NIMISHILLEN CREEK AT NORTH INDUSTRY, OHIO

LOCATION.—Water-stage recorder in SW. ¼ sec. 35, T. 10 N., R. 8 W., just below railroad bridge and 1 mile southeast of North Industry. Zero of gage is 970.77 feet above mean sea level.

DRAINAGE AREA.—175 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,900 second-feet January 19 (gage height, 7.8 feet); minimum, 13 second-feet September 8 (gage height, 0.67 foot).

1921–1927: Maximum discharge, 2,950 second-feet June 29, 1924 (gage height, 7.9 feet); minimum, 6.4 second-feet September 2, 1925 (gage height, 0.58 foot).

REMARKS.—Records excellent. Slight regulation by steel mills at Canton about 4 miles above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	685	246	146	238	231	331	143	86	76	215	52
2	299	507	180	120	209	187	618	137	81	68	98	56
3	200	376	155	128	208	166	411	128	79	66	69	47
4	132	287	152	139	306	146	320	144	797	61	60	47
5	377	238	130	165	620	152	272	121	422	58	60	47
6	542	204	118	146	933	214	253	106	177	64	59	56
7	290	174	108	131	674	272	211	96	132	90	51	51
8	175	158	160	122	410	417	187	124	106	81	100	57
9	130	232	199	99	351	320	212	108	95	66	66	54
10	110	374	177	98	299	232	222	130	112	58	63	51
11	102	226	169	90	239	209	178	110	143	59	52	54
12	101	166	163	81	214	202	171	98	94	62	55	60
13	96	149	364	84	210	194	178	93	90	64	56	59
14	92	154	621	152	454	432	198	119	120	62	114	50
15	96	161	258	132	570	351	171	123	106	72	81	53
16	80	797	124	94	381	269	182	217	93	66	62	51
17	95	612	118	87	444	248	206	180	87	58	56	44
18	154	350	97	108	388	288	184	149	147	54	56	132
19	193	276	88	1,550	234	569	170	1,360	182	59	56	81
20	137	225	89	1,860	172	1,400	160	682	132	57	80	56
21	113	192	99	1,090	182	1,960	149	282	107	57	56	52
22	109	168	101	1,660	189	978	142	170	97	274	54	49
23	128	152	104	725	396	549	141	154	198	123	54	51
24	480	154	150	409	564	435	135	202	182	90	65	43
25	1,230	149	260	302	510	362	138	192	233	70	54	39
26	745	223	336	224	628	331	151	241	282	62	48	46
27	344	312	266	141	314	324	193	200	126	59	45	42
28	244	206	220	156	244	283	227	137	92	61	41	52
29	619	186	187	490	------	262	198	108	85	56	52	64
30	770	322	152	571	------	242	174	101	80	56	49	51
31	1,020	------	141	390	------	239	------	93	------	220	54	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,230	80	301	1.72	1.98
November	797	149	280	1.60	1.78
December	621	88	185	1.06	1.22
January	1,860	81	377	2.15	2.48
February	933	172	378	2.16	2.25
March	1,960	146	402	2.30	2.65
April	618	135	216	1.23	1.37
May	1,360	93	202	1.15	1.33
June	797	79	159	.909	1.01
July	274	54	78.4	.448	.52
August	215	41	67.1	.383	.44
September	132	39	54.9	.314	.35
The year	1,960	39	224	1.28	17.38

STILLWATER CREEK AT URICHSVILLE, OHIO

LOCATION.—Staff gage at waterworks pumping station 1 mile south of Urichsville and Dennison, in Tuscarawas County.

DRAINAGE AREA.—367 square miles.

RECORDS AVAILABLE.—July, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,210 second-feet January 23 (gage height, 11.0 feet); minimum, 11 second-feet September 8 (gage height, 0.36 foot).

1922–1927: Maximum discharge, that of January 23, 1927; minimum, 2 second-feet October 1, 1925, July 30 and 31, 1926 (gage height, 0.25 foot).

REMARKS.—Records good. Municipal water supply for Dennison and Urichsville diverted at gage; not included in tables of discharge. See table of monthly mean diversion. Gage-height record furnished by the Dennison Water Supply Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	439	1,660	1,010	611	1,240	1,330	460	785	313	162	272	16
2	482	1,660	873	525	1,100	829	1,330	525	252	142	272	20
3	963	1,660	654	439	1,010	611	1,520	397	227	182	174	24
4	1,190	1,240	525	439	829	482	1,380	376	397	142	102	20
5	1,010	918	525	568	1,010	439	1,050	568	1,470	94	75	16
6	1,280	697	1,100	611	1,010	439	785	482	1,520	75	68	16
7	1,280	460	1,280	482	1,010	525	611	376	1,100	71	50	14
8	963	397	1,190	272	785	654	525	313	829	64	50	14
9	654	397	1,100	292	654	1,050	482	334	482	60	71	14
10	460	1,010	918	313	568	1,010	697	376	334	50	110	16
11	376	1,280	741	272	525	785	568	439	272	40	57	87
12	334	1,100	697	223	482	568	482	376	223	34	36	252
13	272	741	654	272	460	460	439	313	190	30	32	158
14	272	568	873	292	697	568	504	272	194	30	34	110
15	292	482	785	460	1,240	1,010	460	292	334	28	36	118
16	231	1,010	504	355	1,280	873	397	313	292	34	46	83
17	202	1,660	272	231	1,100	654	397	460	182	60	36	46
18	206	1,750	355	215	918	611	397	439	158	46	32	40
19	186	1,750	292	697	1,010	1,190	376	741	219	34	30	50
20	174	1,420	313	2,440	918	2,140	313	1,010	272	32	32	98
21	166	829	376	3,850	918	3,580	292	741	194	32	32	64
22	158	568	418	4,820	873	4,770	313	504	194	252	32	34
23	150	482	525	5,210	1,140	4,440	334	418	252	1,190	28	30
24	178	418	654	4,940	1,850	3,370	292	525	166	918	28	18
25	873	397	525	4,610	2,140	2,040	252	568	122	376	26	20
26	1,470	376	1,050	2,840	2,440	1,050	252	568	1,140	174	16	16
27	1,380	568	1,380	1,660	2,390	697	252	611	1,190	106	14	16
28	1,190	611	1,190	829	1,940	568	397	568	611	75	14	18
29	963	482	1,100	918	------	504	355	418	313	57	13	28
30	873	697	829	1,280	------	460	654	376	194	50	14	30
31	1,190	------	654	1,420	------	439	------	334	------	110	14	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,470	150	641	1.75	2.02
November	1,750	376	910	2.48	2.77
December	1,380	272	754	2.05	2.36
January	5,210	215	1,370	3.73	4.30
February	2,440	460	1,130	3.08	3.21
March	4,770	439	1,230	3.35	3.86
April	1,520	252	552	1.50	1.67
May	1,010	272	478	1.30	1.50
June	1,520	122	455	1.24	1.38
July	1,190	28	153	.417	.48
August	272	13	59.5	.162	.19
September	252	14	49.5	.135	.15
The year	5,210	13	646	1.76	23.89

Monthly diversion from Stillwater Creek at Uhrichsville, Ohio, 1926–27

Month	Mean diversion	Month	Mean diversion	Month	Mean diversion
	Sec.-ft.		*Sec.-ft.*		*Sec.-ft.*
October	3.96	March	3.73	August	3.74
November	3.68	April	3.62	September	3.67
December	3.71	May	3.73		
January	3.71	June	3.72	The year	3.74
February	3.54	July	3.98		

NOTE.—Monthly mean diversion computed by U. S. Geol. Survey from record of total gallons pumped each month by the Dennison Water Supply Co. This diversion not included in tables of daily and monthly discharge.

MOHICAN RIVER AT GREER, OHIO

LOCATION.—Chain gage on highway bridge at Greer, Knox County. Zero of gage is 872.91 feet above mean sea level.

DRAINAGE AREA.—942 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 15,400 second-feet March 21 (gage height, 12.7 feet); minimum, 155 second-feet September 7 (gage height, 1.56 feet).

1921–1927: Maximum discharge, that of March 21, 1927; minimum, 93 second-feet September 12, 1925 (gage height, 1.29 feet).

The flood of March, 1913, reached a stage of 27.0 feet (discharge estimated at 55,000 second-feet).

REMARKS.—Records good except those for December 18–22 and January 10–20, which were estimated because of ice effect and are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	750	4,540	1,510	508	1,810	1,410	2,460	872	1,410	310	825	220
2	1,410	2,940	1,210	508	1,610	925	3,060	685	1,210	289	310	190
3	1,410	2,240	1,020	493	1,310	880	2,020	640	920	2,820	289	190
4	1,020	1,710	880	450	2,020	585	1,810	685	8,560	872	253	182
5	1,060	1,510	792	422	2,460	835	2,820	597	3,450	554	244	168
6	2,940	1,210	708	409	4,260	880	1,810	538	1,410	446	220	162
7	2,350	1,020	625	369	3,320	2,020	1,510	506	1,110	418	212	155
8	1,610	880	665	358	2,700	3,190	1,310	490	920	474	1,910	162
9	1,510	1,210	750	346	2,240	1,810	1,610	597	685	342	597	236
10	1,510	1,510	835		1,810	1,610	1,410	640	640	321	392	182
11	1,410	1,710	750		1,260	1,510	1,210	554	554	597	367	212
12	835	970	750		546	1,160	1,110	554	522	404	310	236
13	665	835	970		493	1,060	1,160	474	474	342	253	474
14	585	880	835		835	4,820	1,310	554	506	321	262	1,310
15	546	925	792	350	2,700	2,700	968	730	460	367	367	418
16	508	2,130	750		2,020	2,460	920	825	432	321	271	310
17	479	2,700	665		2,240	1,610	872	968	432	289	253	244
18	464	2,020			1,810	1,510	825	778	460	460	244	236
19	435	1,710		2,500	1,110	1,310	685	13,000	490	289	228	253
20	422	1,410	500	3,500	970	9,480	640	6,880	506	280	212	204
21	395	1,110		5,110	925	15,400	597	3,840	446	262	212	190
22	395	1,020		10,300	792	13,500	554	2,460	474	2,130	212	182
23	422	925	508	8,400	1,610	7,330	1,510	2,020	474	1,020	197	182
24	450	835	493	4,540	2,240	4,260	554	3,710	460	730	197	175
25	3,980	585	369	2,940	2,700	2,820	538	3,450	474	460	204	168
26	3,450	1,910	750	2,700	3,450	2,240	538	2,700	872	379	236	162
27	2,240	1,810	665	1,510	2,700	1,910	685	2,020	460	367	228	162
28	2,020	1,610	625	1,410	1,610	1,510	685	1,710	379	342	212	197
29	3,980	1,510	585	1,610	-------	1,310	920	1,510	342	321	204	244
30	5,980	1,810	585	4,820	-------	1,260	1,260	1,910	321	342	212	244
31	5,690	-------	585	2,700	-------	1,160	-------	1,810	-------	254	236	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,980	395	1,640	1.74	2.01
November	4,540	585	1,570	1.67	1.86
December	1,510	----------	715	.759	.88
January	10,300	----------	1,900	2.02	2.33
February	4,260	493	1,910	2.03	2.11
March	15,400	585	3,050	3.24	3.74
April	3,060	538	1,250	1.33	1.48
May	13,000	474	1,890	2.01	2.32
June	8,560	321	995	1.06	1.18
July	2,820	262	556	.590	.68
August	1,910	197	334	.355	.41
September	1,310	155	255	.271	.30
The year	15,400	155	1,340	1.42	19.30

WALHONDING RIVER AT POMERENE, OHIO

LOCATION.—Water-stage recorder at highway bridge at Pomerene, Coshocton County, one-third mile above Honey Run. Zero of gage is 805.53 feet above mean sea level.

DRAINAGE AREA.—1,490 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927. Records for December, 1910, to March, 1913, were published under name of Mohican River at Pomerene.

EXTREMES.—Maximum discharge during year, 22,900 second-feet March 22 (gage height, 13.8 feet); minimum, 328 second-feet September 28 (gage height, 1.61 feet).

1921–1927: Maximum discharge, that of March 22, 1927; minimum, 101 second-feet, August 30, 1925 (gage height, 1.04 feet).

The flood of March, 1913, reached a stage of 21.6 feet (discharge estimated at 80,000 second-feet).

REMARKS.—Records fair December 19, 20, and January 11–17, when stage-discharge relation was affected by ice, and March 15 to May 2, when gage-height record is missing. Records good for rest of year.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,210	7,260	2,280	960	2,810	2,280		1,900	2,280	570	1,110	438
2	1,540	4,620	1,900	960	2,410	1,780		1,600	1,900	570	775	408
3	1,900	3,530	1,540	865	2,150	1,660	3,700	1,110	1,660	5,060	570	378
4	1,660	2,810	1,430	820	2,810	1,320		1,160	3,470	1,920	502	378
5	3,780	2,150	1,320	865	3,530	1,320		1,160	11,100	1,010	470	372
6	6,390	1,780	1,160	865	6,150	1,660		1,010	3,830	775	438	367
7	4,140	1,540	1,060	820	5,450	2,950		910	2,410	688	438	356
8	2,810	1,320	1,110	820	4,140	3,380	2,500	865	1,900	688	1,040	408
9	2,280	1,780	1,320	820	3,380	2,950		960	1,540	645	1,530	536
10	2,020	2,670	1,320	775	2,810	2,280		1,010	1,320	570	820	502
11	1,660	2,020	1,260		2,280	2,020		1,010	1,210	1,950	608	570
12	1,320	1,540	1,210		1,900	1,780		910	1,060	910	536	536
13	1,110	1,320	1,430		1,780	1,660	1,900	865	960	645	470	502
14	1,010	1,260	2,810		2,150	5,970		865	960	570	536	1,310
15	910	1,210	2,150	750	3,980			1,060	960	865	730	960
16	820	4,450	1,260		3,230			1,160	865	910	536	645
17	775	4,460	1,160		3,380	9,100		1,540	775	645	470	502
18	775	3,230	1,110	1,430	3,230		1,400	1,320	775	645	438	502
19	730	2,670	1,040	8,980	2,540			9,140	1,010	570	438	470
20	688	2,150	977	17,900	1,900			15,300	1,060	502	438	438
21	688	1,780	910	11,800	1,660			6,560	865	502	438	378
22	645	1,540	910	15,500	1,540			3,830	775	1,010	408	361
23	645	1,430	910	12,200	2,020	16,300	1,200	3,090	775	2,280	408	356
24	845	1,320	960	6,880	3,980			3,230	730	1,160	408	350
25	4,790	1,320	1,540	4,300	3,680			5,450	730	775	502	339
26	4,940	1,900	1,430	3,980	5,280			4,460	1,210	608	438	339
27	3,380	3,230	1,110	2,670	3,680			3,680	1,010	570	408	339
28	2,540	2,670	1,060	2,150	2,810	2,600	2,100	2,810	730	608	438	350
29	3,930	2,280	1,060	2,950	-------			2,410	645	502	438	378
30	7,830	2,540	960	5,620	-------			2,540	608	570	470	438
31	9,990	-------	960	4,620	-------		-------	2,950	-------	1,320	470	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,990	645	2,510	1.68	1.94
November	7,260	1,210	2,460	1.65	1.84
December	2,810	910	1,310	.879	1.01
January	17,900	----------	3,700	2.48	2.86
February	6,150	1,540	3,100	2.08	2.17
March	----------	----------	5,960	4.00	4.61
April	----------	----------	2,130	1.43	1.60
May	15,300	865	2,770	1.86	2.14
June	11,100	608	1,640	1.10	1.23
July	5,060	502	988	.663	.76
August	1,530	408	572	.384	.44
September	1,310	339	474	.318	.35
The year	----------	339	2,300	1.54	20.95

ROCKY FORK NEAR MANSFIELD, OHIO

LOCATION.— Chain gage in NE. ¼ sec. 26, T. 21 N., R. 18 W., at highway bridge on lower Lucas road, 2 miles southeast of Mansfield. Zero of gage is 1,120.88 feet above mean sea level.

DRAINAGE AREA.—38.3 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,660 second-feet January 19 (gage height, 9.8 feet); minimum, 6.5 second-feet August 7 (gage height, 0.90 foot).

1925–1927: Maximum and minimum discharge occurred in 1927.

REMARKS.—Records good. Slight diurnal fluctuation at low water due to operation of Mansfield sewage treatment works.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	65	40	18	40	34	272	28	39	13	16	9.8
2	118	42	28	17	35	30	170	24	30	147	16	11
3	54	38	26	20	62	28	50	21	27	58	15	9.2
4	35	34	25	24	67	35	42	27	320	19	11	8.3
5	400	31	22	21	336	31	240	24	37	17	16	8.1
6	200	26	20	20	192	224	68	22	32	19	12	9.5
7	118	22	18	19	88	88	39	18	27	25	8.3	10
8	41	25	56	16	58	82	36	24	24	19	26	16
9	31	88	27	15	49	50	93	26	24	15	13	10
10	24	45	27	15	41	41	43	27	23	14	11	10
11	24	31	27	16	34	39	32	22	19	24	10	9.2
12	23	24	26	16	30	36	27	20	16	15	10	9.0
13	21	24	192	16	31	82	41	20	17	15	11	62
14	20	24	54	21	132	154	35	81	19	14	23	24
15	19	31	28	16	70	67	28	25	18	17	13	13
16	20	112	22	15	88	50	27	87	18	14	13	10
17	24	65	18	16	72	43	26	38	18	27	12	10
18	21	99	17	18	88	77	24	46	48	17	12	30
19	18	40	14	892	41	224	26	760	22	15	12	13
20	18	36	18	256	26	1,290	25	118	18	14	11	11
21	18	29	19	368	30	680	26	59	18	13	7.7	11
22	20	31	18	320	42	140	24	41	25	64	10	11
23	18	30	18	79	162	93	23	112	20	22	11	10
24	184	32	54	54	62	64	19	170	17	17	14	8.5
25	304	27	22	52	177	40	21	132	16	15	10	8.1
26	77	154	23	31	88	57	30	99	14	15	11	10
27	39	88	24	27	46	40	50	43	16	19	11	10
28	26	41	22	63	36	41	28	28	15	15	9.5	16
29	504	67	22	118	------	33	58	93	14	14	9.8	25
30	200	51	20	224	------	33	48	224	15	18	13	18
31	154	------	20	49	------	27	------	81	------	13	10	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	504	18	90.2	2.36	2.72
November	154	22	48.4	1.26	1.41
December	192	14	31.2	.815	.94
January	892	15	92.0	2.40	2.77
February	336	26	79.4	2.07	2.16
March	1,290	27	128	3.34	3.85
April	272	19	55.7	1.45	1.62
May	760	18	81.9	2.14	2.47
June	314	14	32.2	.841	.94
July	147	13	23.5	.614	.71
August	26	7.7	12.5	.326	.38
September	62	8.1	14.0	.366	.41
The year	1,290	7.7	57.4	1.50	20.38

JEROME FORK AT JEROMEVILLE, OHIO

LOCATION.—Chain gage in SW. ¼ sec. 5, T. 21 N., R. 15 W., at highway bridge at Jeromeville, 1 mile above Oldtown Run.

DRAINAGE AREA.—120 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,910 second-feet March 21 (gage height, 10.7 feet); minimum, 6 second-feet September 26 (gage height, 0.90 foot).

1925–1927: Maximum discharge, that of March 21, 1927; minimum, 4.1 second-feet August 28, 29, and 31, 1925.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	233	119	34	102	109	259	58	60	20	21	12
2	184	184	84	42	102	77	246	41	50	97	17	10
3	86	130	75	38	184	65	151	40	47	55	16	10
4	58	100	73	45	155	51	113	47	259	28	14	10
5	562	84	a 57	47	1,200	66	298	40	a 16	21	14	10
6	324	72	48	48	650	365	151	39	63	21	13	8
7	133	63	34	52	311	272	93	36	49	69	14	10
8	81	a 92	81	37	196	448	78	60	46	69	86	10
9	55	184	84	26	160	160	121	47	43	24	25	11
10	44	158	70	24	128	115	103	52	36	21	18	10
11	39	90	72	24	84	109	72	44	32	21	16	14
12	37	65	68	22	83	100	64	38	28	18	14	10
13	34	61	259	23	66	107	82	35	30	17	14	18
14	32	61	285	32	365	1,390	77	52	32	18	a 19	21
15	29	58	98	38	365	338	60	a 103	29	18	24	14
16	26	923	142	28	504	184	59	136	26	17	15	12
17	29	233	38	a 57	338	137	58	117	25	28	14	10
18	29	155	32	a 90	272	160	51	77	33	20	15	12
19	a 28	151	25	1,110	172	830	50	2,050	37	16	14	14
20	28	102	32	1,910	65	2,080	46	620	28	17	14	12
21	27	a 80	36	985	a 90	2,730	44	185	28	17	13	10
22	a 39	70	37	1,710	98	1,170	47	109	30	105	13	9
23	51	68	43	448	338	285	43	140	28	66	14	8
24	109	a 115	119	208	272	197	41	533	25	25	25	8
25	1,300	a 162	98	135	680	151	39	324	30	20	17	8
26	420	220	72	130	420	162	44	272	41	18	14	6
27	155	272	52	115	a 272	130	51	151	28	17	12	8
28	104	122	52	66	119	113	50	93	24	16	12	9
29	1,330	160	50	172	------	95	a 72	111	21	20	11	17
30	533	196	50	770	------	91	88	130	20	26	13	10
31	800	------	50	172	------	72	------	101	------	33	17	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,330	26	217	1.81	2.09
November	923	58	155	1.29	1.44
December	285	25	78.5	.654	.75
January	1,910	22	279	2.32	2.68
February	1,200	65	278	2.32	2.42
March	2,730	51	399	3.32	3.83
April	298	39	91.7	.764	.85
May	2,050	35	190	1.58	1.82
June	259	20	46.4	.387	.43
July	105	16	31.5	.262	.30
August	86	11	18.0	.150	.17
September	21	6	11.0	.092	.10
The year	2,730	6	149	1.24	16.88

a Estimated.

KOKOSING RIVER NEAR MILLWOOD, OHIO

LOCATION.—Chain gage on east line of sec. 3, T. 6 N., R. 10 W., on highway bridge 3 miles southeast of Millwood.

DRAINAGE AREA.—472 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 16,500 second-feet March 20 (gage height, 12.0 feet); minimum, 96 second-feet September 27 (gage height, 1.37 feet).

1921–1927: Maximum discharge, that of March 20, 1927; minimum, 36 second-feet September 4, 1925 (gage height, 1.23 feet).

The flood of March, 1913, reached a stage of 19.0 feet (discharge estimated at 28,000 second-feet).

REMARKS.—Records good except those for January 14–20, which were affected by ice, and May 14 to June 28, when gage was not read, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	648	1,550	830	297	1,180	1,270	830	1,020		168	1,180	116
2	1,100	1,360	675	297	1,100	567	1,100	902		155	865	112
3	1,020	940	492	297	902	468	902	940		705	648	101
4	620	705	445	297	865	445	865	620	1,000	445	279	98
5	865	594	445	378	865	400	1,020	468		244	197	98
6	3,440	567	648	378	865	902	902	422		197	142	101
7	1,960	542	594	357	795	865	735	336		182	138	116
8	902	516	468	336	795	765	675	336		168	138	112
9	620	620	468	336	765	735	675	316		155	133	101
10	422	675	445	297	795	567	620	468		155	129	297
11	400	620	422	244	705	516	542	445	600	468	124	261
12	378	594	400	228	620	468	516	378		378	120	228
13	336	567	542	212	594	422	594	357		316	120	357
14	316	567	516		675	4,450	567			297	197	261
15	297	542	357		1,550	4,300	567			735	182	212
16	261	735	297	220	1,360	4,000	542	500		542	168	168
17	261	735	336		1,020	3,170	516			468	155	129
18	244	705	378		902	1,750	492		400	297	133	124
19	228	675	357	2,000	735	1,360	468			212	120	116
20	228	620	297	4,000	620	16,500	445			168	116	112
21	228	542	297	9,990	542	14,600	422	1,400		155	116	109
22	297	468	297	8,270	567	8,690	378			182	116	105
23	261	422	279	4,920	648	4,300	336			567	116	101
24	297	400	279	1,450	865	1,750	336			261	112	101
25	261	400	297	1,180	1,020	1,360	336		280	197	112	98
26	261	594	297	648	1,850	1,100	735			168	112	98
27	244	1,100	297	567	1,750	1,100	902			168	105	96
28	228	902	297	542	1,550	902	1,180	1,000		155	98	98
29	1,100	865	378	1,550	-------	830	1,270		182	142	98	101
30	2,180	940	316	2,420	-------	567	1,180		168	142	129	98
31	1,960	-------	297	1,360	-------	400	-------		-------	1,360	124	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,440	228	705	1.49	1.72
November	1,550	400	702	1.49	1.66
December	830	279	411	.871	1.00
January	9,990	----------	1,420	3.01	3.47
February	1,850	542	946	2.00	2.08
March	16,500	400	2,570	5.44	6.27
April	1,270	336	688	1.46	1.63
May	----------	----------	816	1.73	1.99
June	----------	----------	544	1.15	1.28
July	1,360	142	321	.680	.78
August	1,180	98	210	.445	.51
September	357	96	141	.299	.33
The year	16,500	96	791	1.68	22.72

KILLBUCK CREEK AT LAYLAND, OHIO

LOCATION.—Chain gage in T. 7 N., R. 7 W., at highway bridge at Layland, three-tenths mile above Big Run.

DRAINAGE AREA.—507 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,370 second-feet January 20 (gage height, 15.5 feet); minimum, 71 second-feet September 6 and 7 (gage height, 2.30 feet).

1923–1927: Maximum discharge, 3,370 second-feet April 9, 1926, and January 20, 1927 (gage height, 15.5 feet); minimum, 14 second-feet August 17, 1925 (gage height, 1.10 feet).

Maximum known stage, 22.6 feet March, 1913.

REMARKS.—Records good except those for low water, which are fair. Discharge estimated November 7, February 27, and August 7.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	378	2,330	710	378	1,090	748	885	422	437	166	350	91
2	323	2,120	567	378	584	637	1,850	336	350	259	188	83
3	1,020	1,660	500	364	567	567	1,820	323	336	247	155	79
4	516	1,270	468	350	1,060	484	1,240	364	885	199	128	75
5	927	825	437	378	1,560	452	993	350	2,930	166	118	75
6	1,630	673	407	350	1,950	500	971	310	1,780	155	118	75
7	2,120	578	350	310	2,080	905	673	297	788	155	188	75
8	1,020	484	323	271	1,780	1,040	584	284	533	211	259	75
9	584	452	323	259	1,240	993	619	297	422	199	350	133
10	437	1,500	437	259	927	673	710	284	378	177	297	144
11	407	949	422	247	710	567	601	271	336	155	211	166
12	378	619	422	235	567	516	550	271	287	144	133	113
13	336	533	601	247	601	533	550	259	271	133	118	155
14	323	500	673	271	905	1,090	550	247	284	128	113	297
15	297	468	637	247	1,530	1,530	484	271	271	113	211	155
16	271	993	584	247	1,530	1,020	468	336	235	133	128	118
17	271	1,980	550	323	1,300	710	484	364	223	133	113	113
18	259	1,720	500	271	1,240	767	468	323	223	133	113	155
19	259	1,190	452	1,040	885	1,360	422	1,820	271	128	108	247
20	259	825	437	3,330	584	3,010	392	2,850	259	123	104	199
21	247	673	350	2,890	584	3,330	364	2,260	235	113	104	104
22	247	584	310	2,970	533	3,050	350	1,720	211	284	104	100
23	259	516	350	2,890	825	2,890	323	1,060	223	805	100	91
24	364	500	533	2,780	1,410	2,740	310	993	199	247	95	87
25	1,630	500	550	2,370	1,600	2,370	310	1,380	188	211	95	83
26	1,820	619	584	1,500	1,820	1,880	310	1,410	1,020	177	118	79
27	1,270	691	468	637	1,470	1,300	336	1,060	422	155	100	79
28	825	673	422	655	1,120	927	350	691	287	144	95	75
29	710	710	392	1,240	-------	767	378	550	271	128	91	95
30	673	767	378	1,410	-------	691	550	500	188	284	100	91
31	2,050	-------	350	1,820	-------	637	-------	484	-------	468	95	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,120	247	713	1.41	1.63
November	2,330	452	930	1.83	2.04
December	710	310	467	.921	1.06
January	3,330	235	997	1.97	2.27
February	2,080	533	1,140	2.25	2.34
March	3,330	452	1,250	2.47	2.85
April	1,850	310	630	1.24	1.38
May	2,850	247	722	1.42	1.64
June	2,930	188	488	.963	1.07
July	805	113	202	.398	.46
August	350	91	148	.292	.34
September	297	75	117	.231	.26
The year	3,330	75	648	1.28	17.34

WILLS CREEK AT CAMBRIDGE, OHIO

LOCATION.—Chain gage on Steubenville Street Bridge, one-eighth mile below Baltimore & Ohio Railroad bridge at Cambridge, Guernsey County.

DRAINAGE AREA.—407 square miles.

RECORDS AVAILABLE.—June, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,420 second-feet January 23 (gage height, 16.4 feet); minimum, 19 second-feet September 8 (gage height, 1.70 feet).

1926–27: Maximum discharge, that of January 23, 1927; minimum, 4 second-feet August 14, 1926 (gage height, 1.25 feet).

REMARKS.—Records good except those for January 8–18, which were affected by ice and are fair. Municipal water supply of Cambridge is diverted above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	375	1,900	661	554	1,490	855	580	743	276	61	204	26
2	715	2,070	661	425	913	476	1,740	476	204	58	48	26
3	2,340	1,810	476	450	799	216	1,810	325	276	75	157	25
4	2,510	1,300	400	425	1,150	97	1,300	450	607	65	98	24
5	2,130	661	528	884	1,000	66	634	884	1,650	50	73	22
6	1,810	450	1,520	799	913	216	528	450	2,130	41	64	17
7	1,240	350	1,210	554	799	476	400	300	1,650	45	54	11
8	661	264	661		580	1,000	350	252	661	54	74	22
9	400	661	688		476	1,270	580	325	288	64	123	73
10	312	1,180	607		400	771	1,360	325	216	56	95	94
11	264	1,430	634		375	502	799	375	180	49	60	123
12	240	799	688		400	400	450	252	155	58	51	252
13	228	450	688	200	450	350	400	192	125	44	48	93
14	325	400	771		1,030	743	476	180	528	46	45	70
15	252	400	715		1,680	1,360	400	264	799	57	43	34
16	204	1,090	240		1,580	827	288	300	476	94	31	37
17	157	1,970	252		913	528	375	564	204	94	28	26
18	137	1,900	264		884	661	312	528	168	75	26	35
19	115	1,680	204	942	1,090	1,770	276	1,610	312	50	27	62
20	127	1,180	192	2,510	1,000	3,090	240	1,940	264	44	28	70
21	142	554	325	3,650	971	3,900	228	1,650	157	42	98	49
22	125	450	528	4,100	913	4,180	300	942	150	157	87	29
23	98	350	661	4,420	1,490	3,820	288	715	133	942	56	24
24	131	312	528	4,210	2,340	2,950	228	1,120	155	715	39	18
25	1,360	300	884	3,620	2,570	1,970	180	1,060	142	216	30	11
26	2,070	375	1,400	2,540	2,740	661	168	661	300	80	30	9
27	1,970	580	1,710	1,000	2,370	450	228	607	264	65	29	6
28	1,090	425	1,650	661	1,840	425	276	400	125	56	28	8
29	884	350	1,330	1,330	-------	350	264	325	84	48	26	11
30	942	502	1,120	1,650	-------	312	884	425	69	47	28	9
31	1,300	-------	661	1,770	-------	300	-------	375	-------	95	26	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	2,510	98	795	May	1,940	180	613
November	2,070	264	871	June	2,130	69	425
December	1,710	192	737	July	942	41	118
January	4,420	-------	1,250	August	204	26	59.8
February	2,740	375	1,180	September	252	6	43.9
March	4,180	66	1,130				
April	1,810	168	545	The year	4,420	6	645

LICKING RIVER AT TOBOSO, OHIO

LOCATION.—Chain gage in T. 2 N., R. 10 W., at highway bridge at Toboso, 3 miles below mouth of Rocky Fork. Zero of gage is 744.84 feet above mean sea level.

DRAINAGE AREA.—672 square miles.

RECORDS AVAILABLE.—September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,300 second-feet January 20 (gage height, 16.0 feet); minimum, 76 second-feet September 6 (gage height, 1.83 feet).

1921–1927: Maximum discharge, 15,600 second-feet March 29, 1924 (gage height, 17.0 feet); minimum, 54 second-feet September 5, 10–12, and 25–27, 1925.

The flood of March, 1913, reached a stage of 20.0 feet (discharge estimated at 20,000 second-feet).

REMARKS.—Records good except those for December 17–23, 28–31, and January 12–17, which were affected by ice and are fair. Slight regulation above gage at Buckeye Lake, on the South Fork of Licking River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	2,160	980	500	1,460	775	1,390	638	950	248	460	108
2	915	1,680	790	395	1,250	665	3,460	460	720	213	288	100
3	1,460	1,110	582	395	1,190	585	1,880	410	720	460	225	93
4	3,860	1,110	555	395	2,360	535	1,390	435	1,070	315	198	86
5	2,610	980	582	730	2,200	485	1,390	692	3,760	261	180	79
6	6,420	790	850	730	2,880	535	1,600	460	1,880	234	172	76
7	2,520	790	640	640	2,520	560	1,130	410	1,250	225	164	86
8	1,460	760	640	528	1,740	775	830	360	880	225	194	79
9	980	1,460	915	500	1,460	720	1,600	385	698	198	198	86
10	730	2,080	790	472	1,250	610	1,670	510	510	180	194	189
11	610	1,390	790	345	950	510	1,190	460	610	775	160	315
12	730	980	730		830	485	950	385	485	315	148	132
13	670	610	915		830	460	775	360	410	234	140	116
14	640	555	1,320		1,190	2,880	950	360	510	198	140	120
15	610	500	730	300	1,740	1,460	775	360	510	261	156	116
16	528	5,870	370		1,190	1,010	665	435	460	315	140	100
17	528	2,700			1,130	920	720	830	410	270	136	93
18	472	1,920		238	1,600	830	665	638	410	234	128	93
19	322	1,530		6,200	1,190	1,740	610	6,860	775	234	124	124
20	300	980	250	13,600	1,070	7,100	560	4,060	698	225	120	100
21	282	790		5,980	830	11,900	510	2,200	485	207	116	93
22	273	610		6,530	775	5,760	460	1,460	360	225	120	86
23	264	555		4,880	1,810	3,060	435	1,070	485	460	116	86
24	291	528	370	2,700	2,200	2,120	410	1,390	338	338	116	79
25	5,430	500	730	1,960	1,460	1,740	385	1,960	308	252	112	79
26	2,340	1,320	1,250	1,670	1,600	1,320	385	1,810	1,070	207	108	86
27	1,460	2,000	760	1,070	1,070	1,190	435	1,250	410	234	104	90
28	980	1,250		1,070	830	950	460	830	338	243	100	10
29	790	980		2,520		830	435	720	287	207	100	124
30	2,000	1,180	400	4,260		720	950	1,740	270	180	108	124
31	4,260			2,040		720		1,190		460	116	

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	6,420	264	1,470	May	6,860	360	1,130
November	5,870	500	1,320	June	3,760	270	730
December	1,320		601	July	775	180	279
January	13,600		2,000	August	460	100	157
February	2,880	775	1,450	September	315	76	108
March	11,900	460	1,740				
April	3,460	385	969	The year	13,600	76	996

HOCKING RIVER BASIN

HOCKING RIVER NEAR LANCASTER, OHIO

LOCATION.—Chain gage in SW. ¼ sec. 28, T. 14 N., R. 18 W., at highway bridge 5 miles southeast of Lancaster.

DRAINAGE AREA.—92.8 square miles.

RECORDS AVAILABLE.—September, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,500 second-feet January 19 (gage height, 8.3 feet); minimum, 8 second-feet August 7 (gage height, 1.24 feet).

1923–1927: Maximum discharge, 2,270 second-feet March 29, 1924 (gage height, 8.8 feet); minimum, 5 second-feet August 11, 1925.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	187	86	94	260	116	1,160	93	51	50	48	19
2	449	178	70	80	180	108	1,240	72	46	123	28	23
3	302	105	65	196	180	86	278	64	46	414	11	25
4	187	83	68	262	180	86	147	60	696	78	10	17
5	766	76	77	152	260	75	242	65	278	44	9.0	19
6	343	69	69	90	224	100	224	66	164	57	9.5	19
7	224	61	63	65	180	100	116	61	100	53	8.5	21
8	112	169	61	65	123	100	100	62	60	58	58	20
9	76	187	68	65	108	79	297	55	57	48	172	27
10	69	89	76	70	100	72	172	52	561	42	38	32
11	58	61	72	61	100	71	123	51	673	41	35	27
12	38	53	80	58	93	68	100	50	335	36	32	35
13	29	32	105	37	198	72	116	46	172	36	28	25
14	39	30	87	66	278	189	108	41	1,160	224	45	26
15	41	62	44	120	147	155	93	147	374	394	33	17
16	66	224	27	112	172	108	100	147	155	260	25	18
17	63	178	33	68	123	100	93	131	100	260	72	17
18	50	136	32	112	139	476	86	354	539	110	93	19
19	39	105	27	1,110	198	1,010	79	497	215	58	44	22
20	47	84	38	1,060	180	814	68	172	164	51	40	19
21	42	72	49	790	155	862	61	52	108	64	18	17
22	39	65	48	838	155	434	58	41	100	147	27	16
23	36	66	49	497	455	215	62	108	86	434	23	20
24	862	63	52	497	605	172	72	131	61	100	25	20
25	672	65	49	198	278	155	60	180	56	61	22	19
26	196	90	47	164	224	172	57	108	52	51	23	18
27	128	77	49	155	172	206	116	69	52	48	19	19
28	87	72	56	155	123	139	93	79	56	40	17	29
29	205	128	70	242	-------	93	164	180	51	50	22	29
30	169	144	98	374	-------	75	164	100	51	130	56	22
31	187	-------	99	297	-------	71	-------	71	-------	98	29	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	862	29	182	1.96	2.26
November	224	30	100	1.08	1.20
December	105	27	61.7	.665	.77
January	1,110	37	263	2.83	3.26
February	605	93	200	2.15	2.25
March	1,010	68	212	2.28	2.63
April	1,240	57	195	2.10	2.34
May	497	41	110	1.19	1.37
June	1,160	46	221	2.38	2.66
July	434	36	118	1.27	1.46
August	172	8.5	36.1	.389	.45
September	35	16	21.9	.236	.26
The year	1,240	8.5	143	1.54	20.91

HOCKING RIVER AT ATHENS, OHIO

LOCATION.—Chain gage on Mill Street Bridge, three-fourths mile east of business section of Athens, Athens County. Zero of gage is 615.59 feet above mean sea level.

DRAINAGE AREA.—944 square miles.

RECORDS AVAILABLE.—May, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 13,100 second-feet January 22 (gage height, 18.4 feet); minimum, 77 second-feet September 25 and 28 (gage height, 2.72 feet).

1915–1927: Maximum discharge, 20,500 second-feet April 16, 1922 (gage height, 21.8 feet); minimum, 14 second-feet September 21, 1925 (gage height, 2.32 feet).

Maximum known stage from high-water mark, 26.7 feet in January, 1907.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	740	6,380	1,380	1,240	2,150	1,380	4,360	2,710	595	385	710	147
2	1,240	2,780	1,030	1,030	1,800	1,240	8,180	1,310	485	362	460	123
3	4,120	1,590	830	960	1,590	960	3,640	960	435	1,520	340	123
4	2,290	1,170	770	960	1,520	895	1,870	2,500	1,100	740	320	110
5	1,100	960	710	1,940	1,660	830	1,520	2,850	2,780	435	300	108
6	2,920	830	1,030	1,660	2,080	895	1,660	1,240	1,940	340	260	102
7	1,870	710	770	1,170	1,800	895	1,310	960	770	340	228	100
8	960	650	710	830	1,310	1,240	1,100	830	622	485	485	108
9	770	960	830	740	1,170	1,380	2,080	830	512	385	1,240	105
10	650	2,290	960	710	960	960	4,850	770	435	300	680	123
11	540	1,310	960	622	960	830	1,940	960	6,470	300	385	135
12	485	960	960	485	960	770	1,380	710	11,500	260	300	216
13	460	770	1,030	485	960	710	1,240	650	4,360	244	256	129
14	435	770	1,170	710	4,040	3,640	1,240	595	4,520	213	280	112
15	460	650	830	830	4,280	3,000	1,030	680	8,450	740	300	105
16	385	4,120	622	435	1,940	1,590	960	830	3,320	650	228	100
17	385	5,030	512	595	1,590	1,240	1,100	1,240	1,380	830	213	98
18	410	2,080	830	540	2,850	3,400	960	1,170	2,360	1,310	202	90
19	340	1,660	460	2,640	3,320	8,990	895	2,850	7,100	650	196	93
20	320	1,240	540	9,710	2,570	10,500	830	3,480	3,560	385	185	93
21	340	960	740	12,600	2,290	10,600	740	1,520	1,660	435	168	90
22	340	830	1,660	13,000	2,010	10,000	740	1,100	1,170	710	160	88
23	300	770	1,520	12,600	5,390	4,850	650	895	960	5,030	150	90
24	710	680	1,100	11,500	8,630	2,430	595	960	770	1,520	147	86
25	4,850	650	1,310	4,760	6,920	1,800	540	960	650	710	138	79
26	4,760	740	5,120	2,500	4,440	1,450	540	960	710	512	132	81
27	1,940	960	4,360	1,380	2,640	1,310	710	830	830	410	123	81
28	1,170	830	2,290	1,240	1,660	1,100	830	650	540	340	120	77
29	895	960	3,400	2,850	-------	895	740	622	485	320	120	81
30	2,010	4,850	2,080	4,280	-------	830	5,210	1,100	435	300	118	81
31	4,360	-------	1,450	4,850	-------	830	-------	830	-------	895	160	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,850	300	1,370	1.45	1.67
November	6,380	650	1,640	1.74	1.94
December	5,120	460	1,350	1.43	1.65
January	13,000	435	3,220	3.41	3.93
February	8,630	960	2,620	2.78	2.90
March	10,600	710	2,630	2.79	3.22
April	8,180	540	1,780	1.89	2.11
May	3,480	595	1,240	1.31	1.51
June	11,500	435	2,360	2.50	2.79
July	5,030	213	711	.753	.87
August	1,240	118	294	.311	.36
September	216	77	105	.111	.12
The year	13,000	77	1,600	1.70	23.07

KANAWHA RIVER BASIN

NEW RIVER AT EGGLESTON, VA.

LOCATION.—Water-stage recorder at highway bridge at Eggleston, Giles County.
DRAINAGE AREA.—2,920 square miles.
RECORDS AVAILABLE.—October, 1914, to September, 1927.
EXTREMES.—Maximum discharge during year, 33,400 second-feet November 16 (gage height, 13.13 feet); minimum, 740 second-feet October 12 and November 9 (gage height, 2.47 feet).

1914–1927: Maximum discharge, about 152,000 second-feet July 16, 1916 (gage height, 39.5 feet); minimum, 580 second-feet July 21, 1926 (gage height, 2.2 feet).

The flood of 1878 reached a stage of about 40 feet.

REMARKS.—Records good. Flow regulated at all but high stages by operation of the power plants at Byllesby, 73 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,140	1,110	3,110	6,550	3,620	5,330	3,570	4,280	6,350	1,440	1,890	1,470
2	1,130	1,110	2,700	4,820	4,330	5,150	4,540	4,640	4,820	2,890	2,580	1,790
3	1,320	1,260	2,540	4,430	3,270	4,530	4,380	4,550	3,830	2,750	1,920	1,820
4	1,060	1,620	2,260	3,860	3,200	4,320	4,070	4,040	3,650	1,420	2,040	1,330
5	1,080	1,060	2,500	3,990	3,020	4,640	3,670	4,010	4,070	1,030	1,880	1,480
6	1,240	1,650	1,920	3,580	3,820	4,600	4,180	3,550	3,940	1,060	1,330	1,470
7	1,070	1,090	2,440	3,130	2,920	4,910	3,870	3,480	3,210	1,560	1,170	1,460
8	1,150	902	2,060	3,080	3,340	4,860	4,380	3,770	3,180	1,310	1,230	1,300
9	998	802	1,990	2,950	3,940	5,580	6,320	3,610	2,760	1,490	1,780	1,340
10	986	1,550	2,280	2,320	3,650	5,840	6,130	5,120	3,090	1,940	2,460	1,600
11	981	2,140	6,170		3,520	5,650	6,140	5,310	2,900	3,160	1,850	3,440
12	835	1,830	6,070		3,330	5,650	5,690	4,100	2,120	2,730	1,710	4,700
13	1,070	1,860	4,790		3,130	4,860	5,280	3,770	2,530	2,200	1,530	3,970
14	1,440	2,110	4,410		4,420	4,840	5,560	3,530	3,360	2,100	1,350	2,940
15	1,880	1,180	4,590		7,010	4,950	6,250	3,210	3,340	1,890	1,130	2,560
16	1,650	13,700	4,330		5,740	4,560	5,910	3,130	2,690	1,770	1,630	1,640
17	1,500	19,900	3,800	2,600	5,230	4,750	5,040	3,290	2,430	2,570	1,700	1,130
18	1,080	9,360	3,120		5,170	4,060	4,310	3,390	2,790	2,780	1,610	1,080
19	1,080	6,820	2,600		8,590	4,170	4,420	2,450	2,520	4,450	2,860	1,120
20	1,200	5,400	2,370		14,200	4,080	5,800	2,820	2,210	3,880	8,720	1,340
21	1,380	4,300	3,230		13,200	3,980	7,260	2,510	3,180	2,670	3,810	1,190
22	1,680	3,120	7,330		9,770	3,700	22,100	3,000	2,260	2,130	3,260	1,260
23	1,140	2,940	9,420	2,930	9,250	3,840	21,300	1,940	2,090	1,950	3,320	1,550
24	1,110	2,960	6,870	2,230	18,000	4,080	11,900	2,540	2,200	2,110	2,530	1,210
25	1,120	2,700	6,780	2,730	14,600	3,460	8,540	2,260	2,290	2,200	2,400	1,150
26	2,180	1,630	16,200	2,490	9,830	3,590	6,660	2,320	1,850	2,430	1,830	921
27	1,830	3,110	15,200	2,680	7,900	3,230	5,710	2,710	1,950	1,690	1,540	890
28	1,990	3,780	10,300	2,550	6,320	3,320	5,190	2,990	1,670	2,340	1,460	1,140
29	1,900	3,570	13,600	2,850	-------	3,150	4,680	2,320	1,540	1,830	1,840	1,040
30	1,260	3,810	11,700	2,710	-------	2,760	4,480	3,940	1,440	1,510	2,050	1,050
31	1,310	-------	9,020	2,980	-------	3,250	-------	5,470	-------	2,420	2,080	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,180	835	1,320	0.452	0.52
November	19,900	802	3,610	1.24	1.38
December	16,200	1,920	5,670	1.94	2.24
January	6,530	-------	3,030	1.04	1.20
February	18,000	2,920	6,580	2.25	2.34
March	5,840	2,760	4,380	1.50	1.73
April	22,100	3,570	6,580	2.25	2.51
May	5,470	1,940	3,490	1.20	1.38
June	6,350	1,440	2,880	.987	1.10
July	4,450	1,030	2,180	.747	.86
August	3,810	1,130	2,050	.702	.81
September	4,700	890	1,680	.575	.64
The year	22,100	802	3,590	1.23	16.71

NEW RIVER NEAR HINTON, W. VA.

LOCATION.—Staff gage on Sims farm in Summers County 2 miles above Greenbrier River and 3½ miles south of Hinton.

DRAINAGE AREA.—4,560 square miles.

RECORDS AVAILABLE.—December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 44,300 second-feet December 22 (gage height, 12.20 feet); minimum, 1,000 second-feet September 28 (gage height, 2.15 feet).

1924–1927: Maximum discharge, 49,700 second-feet January 17, 1924 (gage height, 13.03 feet); minimum, 680 second-feet August 27, 1925 (gage height, 1.80 feet).

The floods of April 21 and May 23, 1901, reached stage of about 24.2 feet. The flood of 1878 probably reached a higher stage.

REMARKS.—Records good. Probably some regulation at low stages by power plants above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,380	1,830	5,530	11,900	6,400	8,900	8,260	9,620	9,260	1,910	3,490	2,430
2	1,240	1,830	4,450	9,260	6,400	7,300	9,260	8,580	7,940	2,250	3,030	1,830
3	1,750	1,380	3,970	7,620	7,300	7,300	8,260	7,940	13,900	3,490	3,490	2,080
4	1,750	1,750	3,730	6,400	5,530	6,400	8,580	6,700	9,260	3,250	2,810	2,080
5	1,600	1,910	3,490	6,100	4,990	5,260	7,000	6,700	8,580	2,080	3,030	1,600
6	1,380	1,520	3,970	6,100	5,260	6,100	6,700	6,100	7,940	1,750	2,610	1,750
7	1,520	2,080	3,030	5,530	6,400	7,000	6,400	5,530	6,700	1,450	2,080	1,830
8	1,310	1,520	3,490	4,450	5,530	7,940	6,100	5,530	6,400	2,080	1,680	1,910
9	1,310	1,310	3,490	4,720	5,800	9,260	11,900	6,100	5,800	2,080	1,750	1,680
10	1,310	1,180	9,980	4,720	6,100	9,260	18,500	6,100	4,990	2,250	2,430	1,600
11	1,240	1,910	9,620	3,490	5,800	8,580	15,200	6,400	4,450	2,810	3,030	3,030
12	1,240	2,610	10,700	3,970	5,800	7,940	10,700	6,700	4,450	3,970	2,250	4,990
13	1,240	2,160	11,500	3,970	5,530	7,300	9,260	5,260	3,490	3,250	2,160	3,970
14	1,910	2,250	9,980	2,610	8,900	7,000	9,980	4,720	4,450	2,610	2,080	3,250
15	2,250	2,610	8,580	3,970	11,100	7,000	10,700	6,100	5,800	2,610	1,750	2,080
16	2,250	18,100	7,300	2,610	10,300	7,300	9,620	4,990	4,990	2,610	1,600	1,750
17	2,160	34,000	5,800	3,490	11,100	6,400	8,900	4,210	4,210	2,810	1,910	1,750
18	2,080	17,100	5,530	3,730	12,700	5,800	8,580	4,720	4,210	3,490	2,080	1,380
19	1,450	10,700	4,720	3,970	14,800	5,530	8,260	3,970	3,730	4,720	2,080	1,380
20	3,030	8,260	3,730	4,990	29,200	5,530	10,700	3,730	3,490	5,530	3,970	1,520
21	3,030	6,700	6,700	5,260	24,700	5,260	10,700	3,730	3,490	4,450	4,720	1,600
22	2,430	5,530	41,700	4,990	18,500	4,990	24,700	3,730	3,970	3,250	4,450	1,450
23	2,430	3,970	24,700	4,990	38,400	4,990	35,200	4,210	3,490	3,490	3,730	1,380
24	1,910	4,450	14,300	4,450	26,900	4,720	21,100	2,810	2,810	2,610	3,970	1,830
25	2,610	4,450	17,100	3,970	26,900	4,450	14,800	3,030	2,610	2,610	2,810	1,380
26	2,810	3,970	31,500	4,720	18,500	4,450	11,500	2,810	3,030	2,610	2,810	1,310
27	3,490	2,610	26,900	4,450	13,100	4,720	9,260	2,810	2,610	2,810	2,250	1,060
28	2,610	6,100	19,500	4,210	10,700	3,970	7,940	3,490	2,430	3,250	2,000	1,060
29	2,810	5,800	26,400	4,720	.....	3,730	6,700	3,490	2,080	2,810	1,830	1,310
30	2,810	5,530	21,100	5,260	.....	3,730	7,300	3,970	2,000	2,250	2,250	1,180
31	1,750	.....	15,700	6,400	.....	4,210	.....	8,260	.....	2,250	2,430	.....

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,490	1,240	2,000	0.439	0.51
November	34,000	1,180	5,500	1.21	1.35
December	41,700	3,030	11,900	2.61	3.01
January	11,900	2,610	5,070	1.11	1.28
February	38,400	4,990	12,600	2.76	2.87
March	9,260	3,730	6,200	1.36	1.57
April	35,200	6,100	11,400	2.50	2.79
May	9,620	2,810	5,230	1.15	1.33
June	13,900	2,000	5,090	1.12	1.25
July	5,530	1,450	2,880	.632	.73
August	4,720	1,600	2,660	.583	.67
September	4,990	1,060	1,920	.421	.47
The year	41,700	1,060	5,980	1.31	17.83

REED CREEK AT GRAHAMS FORGE, VA.

LOCATION.—Chain gage on highway bridge at Grahams Forge, Wythe County. Glade Creek enters on right 2½ miles above station.

DRAINAGE AREA.—247 square miles.

RECORDS AVAILABLE.—July, 1908, to September, 1916, and February to September, 1927.

EXTREMES.—Maximum discharge during period February 3 to September 30, 1927, 2,240 second-feet April 22 (gage height, 3.90 feet); minimum, 35 second-feet September 20 (gage height, 1.12 feet).

1908–1916, 1927: Maximum discharge, not determined; maximum gage height, 12.1 feet, July 16, 1916; minimum discharge about 5 second-feet December 22, 1909 (gage height, 1.17 feet). This extremely low discharge was probably caused by freezing weather or by regulation of flow by power plants above station or by both.

REMARKS.—Records good. Low-water flow may be affected slightly by operation of power plants above. Gage datum raised 0.68 foot on February 3, 1927.

Daily and monthly discharge, in second-feet, 1927

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	------	428	240	492	381	103	167	128
2	------	428	525	428	264	108	178	100
3	231	364	370	347	309	117	120	88
4	240	358	309	314	525	111	134	86
5	231	347	269	336	525	100	122	84
6	231	352	250	293	381	98	100	95
7	254	428	227	288	398	91	95	93
8	264	492	223	288	428	98	91	86
9	259	670	330	352	330	108	125	95
10	254	525	890	336	269	100	197	82
11	259	428	595	309	231	98	131	98
12	240	364	459	274	197	98	117	93
13	269	330	375	240	175	100	108	82
14	840	320	750	231	210	82	93	86
15	560	314	632	218	214	88	100	79
16	428	288	492	206	186	86	98	82
17	632	278	428	193	167	86	88	71
18	710	259	364	175	157	223	106	73
19	710	240	341	175	160	210	120	77
20	1,800	240	375	160	154	122	114	57
21	1,050	231	459	160	141	103	108	84
22	840	227	1,940	147	134	100	100	79
23	1,340	218	1,100	147	134	108	299	69
24	1,800	210	670	134	125	100	138	69
25	995	210	525	134	120	88	114	71
26	750	197	428	141	117	93	108	69
27	595	178	387	131	111	103	93	79
28	492	182	352	141	103	93	100	82
29	------	175	309	157	108	95	117	86
30	------	171	299	309	98	114	95	73
31	------	175	------	795	------	206	103	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February 3–28	1,800	231	626	2.53	2.45
March	670	171	311	1.26	1.45
April	1,940	223	497	2.01	2.24
May	795	131	260	1.05	1.21
June	525	98	228	.923	1.03
July	223	82	111	.449	.52
August	299	88	122	.494	.57
September	128	57	83.2	.337	.38

PEAK CREEK AT PULASKI, VA.

LOCATION.—Chain gage on Washington Avenue Bridge in Pulaski, Pulaski County. Track Fork enters from left three-eighths of a mile above station.
DRAINAGE AREA.—68 square miles.
RECORDS AVAILABLE.—February to September, 1927.
EXTREMES.—Maximum discharge during period of record, 1,400 second-feet April 22 (gage height, 6.65 feet); minimum, 5 second-feet August 8, 17, and September 24–30 (gage height, 1.68 feet).
REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		50	52	66	46	7	11	9
2		57	124	63	27	11	10	8
3	35	42	74	52	35	10	8	7
4	32	36	68	56	30	9	9	8
5	27	40	60	50	42	6	9	7
6	29	70	60	47	33	7	7	6
7	33	95	48	75	74	7	8	7
8	34	102	42	68	74	8	5	13
9	37	102	56	79	50	6	7	8
10	33	84	278	68	33	26	8	8
11	37	61	147	72	22	20	6	48
12	41	50	102	61	18	16	6	14
13	75	47	85	44	50	8	7	11
14	209	52	88	39	181	9	7	10
15	124	41	95	35	34	11	6	7
16	79	40	83	27	26	11	6	6
17	230	38	74	22	22	14	5	8
18	156	35	58	20	16	12	11	7
19	404	24	330	20	17	8	8	9
20	470	35	131	20	12	8	11	8
21	219	29	374	17	12	12	15	7
22	199	26	1,120	15	11	11	12	6
23	330	22	265	14	10	17	11	6
24	265	21	139	13	9	9	9	5
25	156	20	102	14	10	8	8	5
26	109	19	78	13	9	13	6	
27	60	17	62	11	8	18	6	5
28	57	19	51	13	8	9	9	5
29		12	44	16	6	9	17	5
30		14	44	102	8	10	10	5
31		13		75		10	8	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
February 3–28	470	27	134	1.97	1.90
March	102	12	42.4	.624	.72
April	1,120	42	144	2.12	2.36
May	102	11	41.5	.610	.70
June	181	6	31.1	.457	.51
July	26	6	11.0	.162	.19
August	17	5	8.57	.126	.15
September	48	5	8.77	.129	.14

WOLF CREEK NEAR BURKES GARDEN, VA.

LOCATION.—Staff gage one-fourth mile below junction of Garden and Little Rivers and 3 miles north of Burkes Garden, Tazewell County.

DRAINAGE AREA.—36 square miles.

RECORDS AVAILABLE.—March to September, 1927.

EXTREMES.—Maximum discharge during period of record, 377 second-feet April 22 (gage height, 4.00 feet); minimum, 3 second-feet September 6 (gage height, 0.43 foot).

REMARKS.—Records good for medium and high stages; fair for low stages owing to regulation and operation of power plant above.

Daily and monthly discharge, in second-feet, 1927

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1		99	66	143	28	36	29
2		84	66	104	27	35	28
3		66	62	187	26	34	27
4		66	66	161	25	32	25
5		53	62	155	29	31	26
6		62	57	126	28	30	27
7		49	57	187	27	29	27
8		66	99	137	28	28	26
9		215	84	110	27	29	28
10		215	75	110	26	30	27
11		126	75	80	27	29	28
12		115	66	70	26	28	30
13		137	57	66	25	27	29
14		215	62	84	26	26	28
15		161	66	126	27	31	27
16		132	75	84	28	30	26
17		115	70	75	27	29	25
18		94	62	66	34	31	28
19		143	53	62	32	30	27
20		132	48	49	31	32	26
21		110	99	45	30	36	25
22		377	80	42	29	35	26
23		229	57	37	28	32	27
24		155	49	46	27	30	26
25		115	57	38	26	31	25
26		99	57	32	25	29	26
27		80	40	28	26	27	27
28		70	41	28	28	26	26
29		66	62	27	29	31	25
30	31	57	287	26	31	32	26
31	28		174		32	30	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
April	377	49	123	3.42	3.82
May	287	40	75.2	2.09	2.41
June	187	26	84.4	2.34	2.61
July	34	25	27.9	.775	.89
August	36	26	30.5	.847	.98
September	30	25	26.8	.744	.83

GREENBRIER RIVER AT ALDERSON, W. VA.

LOCATION.—Chain gage on highway bridge at Alderson, Monroe County, half a mile above mouth of Muddy Creek.

DRAINAGE AREA.—1,340 square miles.

RECORDS AVAILABLE.—July, 1895, to September, 1927.

EXTREMES.—Maximum discharge during year, 34,900 second-feet December 26 (gage height, 14.50 feet); minimum, 118 second-feet September 30 (gage height, 2.02 feet).

1895–1927: Maximum discharge, estimated 60,000 second-feet March 13 and 14, 1918 (gage height, 22.0 feet); minimum, 46 second-feet numerous times in September, October, and November, 1904 (gage height, 1.40 feet).

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	336	1,580	1,740	3,290	5,120	2,920	3,970	10,000	905	318	212	366
2	295	1,500	2,280	2,690	3,970	2,480	12,400	7,440	816	356	212	336
3	1,740	1,430	2,180	2,280	2,920	2,280	6,570	4,540	1,580	310	376	303
4	1,660	1,280	2,090	2,090	2,480	1,820	5,120	3,420	2,380	287	1,500	256
5	2,000	1,200	1,910	1,910	2,800	1,660	8,020	2,800	2,480	248	1,910	256
6	1,660	1,130	1,910	1,740	18,800	1,580	6,570	2,280	2,280	236	1,200	242
7	1,430	1,060	2,690	1,500	11,200	1,660	5,700	2,090	1,910	218	802	206
8	1,200	980	2,280	1,360	7,440	2,800	4,250	1,820	1,660	248	732	184
9	905	905	2,280	1,200	5,120	7,440	10,000	1,580	1,430	287	1,500	170
10	718	830	3,970		3,690	5,120	15,100	1,500	1,280	524	2,090	310
11	578	816	5,120		3,290	3,420	9,760	1,430	1,130	634	2,090	1,280
12	499	905	4,250		2,800	2,690	6,280	1,360	980	537	1,500	366
13	905	1,500	8,020	850	2,480	2,480	4,540	1,360	905	578	1,130	376
14	980	1,580	9,180		3,420	2,090	4,540	1,280	1,200	461	788	511
15	802	1,430	5,700		3,690	2,690	5,120	1,280	2,920	376	606	376
16	718	10,000	3,970		3,290	3,040	3,970	1,360	2,800	405	1,280	326
17	774	15,100	2,690		3,160	2,580	3,690	1,660	1,910	366	1,200	318
18	905	10,900	2,380	1,360	3,040	2,280	3,290	2,580	1,500	461	905	271
19	980	8,310	1,910	1,430	17,600	2,090	3,290	3,420	1,280	437	746	218
20	1,130	5,700	1,580	1,430	17,600	1,740	3,420	2,920	1,360	346	1,060	188
21	1,360	4,540	3,040	2,920	9,180	1,660	5,700	2,280	1,280	271	980	179
22	1,500	3,970	22,900	8,020	6,280	1,580	6,860	1,910	1,060	242	1,430	166
23	1,820	3,160	12,700	7,150	15,400	1,580	7,440	1,910	905	326	1,360	153
24	1,910	2,180	7,730	6,280	15,100	1,500	5,120	2,090	905	318	1,200	144
25	1,820	1,580	7,730	5,410	9,180	1,500	3,690	1,740	830	264	980	137
26	1,820	1,430	30,400	3,970	6,860	1,360	2,690	1,580	732	461	774	131
27	1,740	1,500	15,100	2,800	5,120	1,280	2,280	1,360	578	303	648	125
28	1,660	1,430	8,310	2,090	3,420	1,130	2,090	1,200	449	242	499	125
29	1,580	1,360	8,020	2,280	-------	1,060	2,090	1,200	395	206	415	125
30	1,500	1,740	5,990	2,690	-------	980	2,920	1,060	356	188	385	118
31	1,500	-------	3,970	6,570	-------	980	-------	1,060	-------	206	376	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,000	295	1,240	0.925	1.07
November	15,100	816	3,030	2.26	2.52
December	30,400	1,580	6,260	4.67	5.38
January	8,020	-------	2,560	1.91	2.20
February	18,800	2,480	6,940	5.18	5.39
March	7,440	980	2,240	1.67	1.92
April	15,100	2,090	5,550	4.14	4.62
May	10,000	1,060	2,370	1.77	2.04
June	2,920	356	1,340	1.00	1.12
July	634	188	344	.257	.30
August	2,090	212	996	.743	.86
September	1,280	118	275	.205	.23
The year	30,400	118	2,730	2.04	27.65

GAULEY RIVER NEAR LEANDER, W. VA.

LOCATION.—Staff gage 100 feet below mouth of Ramsey Branch and 2⅓ miles from Leander, Fayette County. Zero of gage is 981.17 feet above mean sea level.

DRAINAGE AREA.—1,230 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 41,400 second-feet November 16 (gage height, 20.35 feet); minimum, 126 second-feet September 30 (gage height, 2.74 feet).

1925–1927: Maximum discharge, that of November 16, 1926; minimum, 26 second-feet September 15, 1925 (gage height, 1.69 feet).

Flood of March 13, 1918, reached stage of about 34 feet (revised); determined from high-water mark (discharge, about 112,000 second-feet; revised).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,910	4,770	3,270	5,090	6,130	3,130	4,610	10,100	785	365	896	515
2	2,570	3,550	2,990	4,770	4,610	2,430	10,300	7,470	950	495	1,270	415
3	2,300	3,270	2,710	4,450	3,410	2,300	7,670	6,310	4,450	455	1,450	365
4	2,170	2,850	2,300	4,770	2,990	1,780	8,080	5,430	6,130	350	8,500	320
5	2,040	2,570	2,170	4,150	2,430	1,660	8,500	4,150	5,770	305	4,930	277
6	2,040	2,170	3,850	4,770	14,600	2,170	9,830	3,550	4,610	264	4,150	252
7	1,910	2,040	4,450	4,150	16,400	2,430	8,080	3,130	3,270	415	2,990	216
8	1,780	1,910	3,410	3,850	10,500	10,800	6,500	2,710	2,710	2,040	5,090	194
9	1,660	1,780	2,710	3,850	6,500	9,370	6,130	2,430	2,430	1,270	7,070	290
10	1,450	2,710	4,770	3,850	4,930	7,670	14,300	2,170	2,170	950	2,990	840
11	1,270	2,570	6,880	4,150	3,700	5,770	9,370	1,780	1,910	730	2,710	5,600
12	1,270	2,170	5,260	3,410	3,270	3,270	6,690	1,660	1,660	602	2,170	3,410
13	1,270	1,910	9,370	2,430	2,850	2,850	4,610	1,450	950	535	1,780	2,850
14	1,660	1,660	11,000	2,300	2,710	3,410	6,310	2,040	1,270	415	1,360	2,430
15	3,130	1,550	7,270	1,780	2,710	7,070	5,770	2,430	5,430	495	3,130	2,040
16	2,710	37,600	3,550	1,100	2,570	5,090	5,090	4,770	3,410	455	2,710	1,660
17	2,430	18,300	2,850	1,270	2,430	4,300	4,150	6,690	2,710	380	2,570	1,360
18	2,300	10,300	2,300	1,780	2,430	3,270	3,410	7,670	2,430	335	3,700	950
19	2,570	6,500	1,910	2,430	14,000	2,710	3,410	6,310	2,040	305	3,410	675
20	4,450	4,450	2,040	7,070	17,200	2,710	3,270	4,770	1,780	535	2,850	535
21	5,430	4,150	10,300	9,830	11,200	2,430	3,270	3,700	1,450	675	5,260	455
22	4,930	3,700	32,000	11,200	8,930	2,170	11,700	3,410	1,020	495	4,930	350
23	3,550	3,270	19,500	13,200	18,900	1,910	10,500	3,270	2,040	380	3,270	290
24	3,130	2,170	9,370	15,400	16,400	1,910	8,500	2,990	1,450	350	2,850	252
25	2,710	1,910	11,200	9,370	10,300	1,450	5,090	2,710	1,100	305	2,430	216
26	2,430	1,780	20,900	7,070	6,500	1,270	3,550	2,430	840	277	950	184
27	2,300	2,990	14,800	4,150	5,090	1,270	2,850	1,910	580	240	840	174
28	2,170	4,150	11,200	3,700	4,450	1,270	2,710	1,450	455	228	730	156
29	2,170	3,850	8,290	3,410	-------	1,100	3,410	1,020	398	205	675	138
30	2,570	3,410	6,500	6,130	-------	1,100	4,770	950	320	194	702	130
31	3,130	-------	5,770	11,500	-------	1,100	-------	840	-------	455	625	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,430	1,270	2,500	2.03	2.34
November	37,600	1,550	4,870	3.96	4.42
December	32,000	1,910	7,580	6.16	7.10
January	15,400	1,100	5,370	4.37	5.04
February	18,900	2,430	7,430	6.04	6.29
March	10,800	1,100	3,260	2.65	3.06
April	14,300	2,710	6,410	5.21	5.81
May	10,100	840	3,600	2.93	3.38
June	6,130	320	2,220	1.80	2.01
July	2,040	194	500	.41	.47
August	8,500	625	2,870	2.33	2.69
September	5,600	130	918	.75	.84
The year	37,600	130	3,940	3.20	43.45

RACCOON CREEK BASIN

RACCOON CREEK AT ADAMSVILLE, OHIO

LOCATION.—Staff gage on line between secs. 25 and 26, T. 6 N., R. 16 W., just above highway bridge at Adamsville.

DRAINAGE AREA.—537 square miles.

RECORDS AVAILABLE.—June, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,210 second-feet January 23 (gage height, 19.8 feet); minimum, 15 second-feet September 29 (gage height, 1.60 feet).

1915–1927: Maximum discharge, 7,920 second-feet April 21, 1920 (gage height, 21.10 feet); minimum, 4 second-feet August 5–8, 1922 (gage height, 1.50 feet).

High-water marks indicate maximum stage of about 24.5 feet previous to installation of gage.

REMARKS.—Records good except those for January 12–18, which were affected by ice and are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	2,310	1,070	1,410	1,760	1,270	1,440	4,150	675	123	950	73
2	209	2,310	1,130	980	1,270	980	2,520	3,800	347	115	325	62
3	700	2,070	830	830	1,010	830	3,110	1,830	252	123	232	77
4	1,130	1,130	650	750	860	675	2,620	1,580	1,910	107	283	48
5	578	750	578	725	775	626	1,690	2,110	1,010	107	131	38
6	437	554	602	700	1,300	578	1,240	1,950	950	98	93	40
7	369	460	554	626	1,990	578	1,010	1,410	554	174	107	54
8	303	414	530	530	2,110	980	890	920	347	123	1,800	96
9	230	554	530	437	1,200	950	1,830	775	283	73	1,910	148
10	179	800	725	391	950	890	2,350	675	242	63	602	77
11	133	860	775	369	830	725	2,150	626	202	69	347	48
12	124	626	800		775	650	1,580	626	602	66	202	40
13	700	530	1,070		830	530	1,130	626	460	60	140	35
14	261	483	980		1,800	2,390	1,200	602	347	60	1,160	33
15	151	437	860	400	2,880	2,150	1,070	700	890	71	1,520	31
16	133	1,340	700		3,060	1,800	890	800	1,300	67	530	33
17	120	1,990	578		2,480	1,240	830	860	775	183	283	30
18	111	1,950	506		2,150	1,340	800	1,200	530	115	123	29
19	170	1,380	483	1,620	2,440	2,440	830	1,200	1,300	78	174	28
20	170	920	414	3,160	2,570	3,600	890	1,100	2,070	62	123	28
21	142	750	700	5,300	2,270	4,500	800	890	1,720	77	115	31
22	133	626	1,990	6,550	2,070	4,750	890	675	950	131	115	29
23	113	530	2,230	7,210	3,060	4,950	750	578	530	304	96	28
24	506	460	1,870	7,100	3,650	4,250	602	506	414	140	74	25
25	1,690	414	1,620	6,350	3,950	2,310	530	483	325	123	70	26
26	2,150	530	2,880	5,350	3,650	1,100	483	437	252	107	74	31
27	1,910	437	2,750	2,700	3,240	860	800	369	232	86	71	30
28	890	391	2,620	1,040	2,230	725	830	304	202	62	66	24
29	626	261	2,930	1,380	-------	626	890	262	174	77	77	17
30	675	950	2,570	1,690	-------	530	4,000	262	140	131	57	17
31	1,690	-------	1,990	1,910	-------	506	-------	1,070	-------	2,070	60	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,150	94	543	1.01	1.16
November	2,310	261	907	1.69	1.89
December	2,930	414	1,240	2.31	2.66
January	7,210	----------	2,000	3.72	4.29
February	3,950	775	2,040	3.80	3.96
March	4,950	506	1,620	3.02	3.48
April	4,000	483	1,350	2.51	2.80
May	4,150	262	1,080	2.01	2.32
June	2,070	140	666	1.24	1.38
July	2,070	60	169	.315	.36
August	1,910	57	384	.715	.82
September	148	17	43.5	.081	.09
The year	7,210	17	998	1.86	25.21

BIG SANDY RIVER BASIN

RUSSELL FORK AT HAYSI, VA.

LOCATION.—Chain gage on highway bridge at Haysi, Dickenson County, 500 feet below McClure River.

DRAINAGE AREA.—286 square miles.

RECORDS AVAILABLE.—July, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined; maximum gage height, 12.5 feet December 21; minimum discharge, 2 second-feet September 29 (gage height, 1.44 feet).

1926–27: Maximum discharge not determined; maximum gage height, that of December 21, 1926; minimum discharge, that of September 29, 1927.

REMARKS.—Records good. Gage-height record for October 17 to November 19 missing. Discharge January 16–18 estimated because stage-discharge relation was affected by ice.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	------	256	510	830	360	480	718	680	28	452	11
2	41	------	248	349	610	354	1,160	540	424	19	94	16
3	41	------	198	290	397	290	645	424	575	17	124	11
4	27	------	140	268	370	240	452	370	990	65	94	92
5	27	------	122	252	323	232	370	300	680	41	65	48
6	14	------	105	222	397	370	365	229	424	30	46	30
7	14	------	94	195	480	610	281	360	950	23	24	18
8	14	------	90	143	480	2,030	304	2,700	910	28	23	54
9	14	------	140	171	397	1,620	755	2,580	540	40	540	101
10	6	------	1,250	148	360	830	1,430	1,070	370	20	165	56
11	6	------	610	130	323	575	1,030	830	279	101	92	46
12	6	------	300	112	252	424	680	480	215	114	49	52
13	14	------	792	137	313	370	830	365	225	63	32	43
14	14	------	718	157	718	1,160	3,300	323	610	19	43	22
15	14	------	480	132	645	1,160	1,430	295	424	94	68	18
16	14	------	300	}	510	830	910	252	277	304	41	19
17	------	------	212	150	1,430	610	1,340	225	205	212	28	18
18	------	------	225	}	1,340	424	1,160	198	160	122	244	8
19	------	------	94	212	2,030	338	1,920	198	157	90	260	8
20	------	232	189	195	2,140	268	1,250	252	103	96	360	9
21	------	218	6,360	180	1,340	252	990	127	90	44	177	8
22	------	143	4,450	180	1,430	215	6,080	140	94	42	101	6
23	------	122	1,340	186	4,840	189	1,920	132	78	32	74	5
24	------	96	1,340	240	2,580	195	990	119	84	35	63	4
25	------	107	4,840	286	1,250	183	680	151	90	20	48	5
26	------	165	3,420	309	540	208	480	195	103	9	41	4
27	------	990	1,340	252	680	137	360	177	63	4	43	4
28	------	480	1,720	248	424	119	277	195	43	4	13	3
29	------	290	3,180	540	------	132	240	264	43	5	22	3
30	------	272	1,250	718	------	119	277	2,140	22	4	14	3
31	------	------	680	1,430	------	135	------	1,620	------	4	10	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1–16	41	6	18.3	0.034	0.04
November 20–30	990	96	283	.990	.40
December	6,360	90	1,180	4.13	4.76
January	1,430	112	279	.976	1.13
February	4,840	252	980	3.43	3.57
March	2,030	119	483	1.69	1.95
April	6,080	240	1,080	3.78	4.22
May	2,700	119	580	2.03	2.34
June	990	22	330	1.15	1.28
July	304	4	61.3	.214	.25
August	540	10	111	.388	.45
September	101	3	24.2	.085	.09

POUND RIVER NEAR HAYSI, VA.

LOCATION.—Chain gage at suspension footbridge 4 miles west of Haysi, Dickenson County.

DRAINAGE AREA.—217 square miles.

RECORDS AVAILABLE.—July, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined; maximum gage height, 14.0 feet, from high-water marks, December 21; minimum discharge, 3 second-feet October 19 (gage height, 0.84 foot).

1926–27: Maximum discharge and gage height, that of December 21, 1926; minimum discharge, 1.2 second-feet September 26, 1926 (gage height, 0.72 foot).

REMARKS.—Records good. Discharge of Twin Branch, which is 50 feet below gage, included in records.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	36	282	540	745	300	220	430	970	31	640	40
2	21	39	250	318	515	318	640	335	590	24	450	16
3	17	32	205	265	335	250	450	282	490	855	205	16
4	16	28	167	250	300	220	390	282	640	318	102	15
5	14	24	131	318	282	250	400	265	390	144	50	15
6	11	22	98	282	282	335	335	235	318	87	40	16
7	9	19	86	250	450	515	318	250	745	62	34	14
8	10	18	100	205	470	2,410	352	1,670	690	58	38	27
9	8	169	175	190	370	1,440	970	1,910	430	47	81	43
10	6	490	1,440	190	352	690	1,670	855	335	40	130	28
11	6	235	615	158	282	515	1,370	800	282	47	79	24
12	5	107	390	134	250	300	970	590	190	90	54	47
13	6	88	970	86	300	318	1,230	430	430	51	37	46
14	5	51	690	144	640	565	3,130	370	690	37	75	57
15	5	73	470	137	540	690	1,300	390	450	33	85	21
16	6	3,700	300	103	470	335	855	335	282	590	49	16
17	10	1,030	161	205	1,030	370	1,750	300	205	590	46	52
18	6	318	220	190	1,090	318	1,160	235	167	250	318	16
19	3	300	116	190	2,320	265	910	220	155	190	282	11
20	25	190	175	190	1,440	250	690	190	98	89	235	10
21	40	139	5,250	190	910	220	590	144	85	54	190	10
22	48	114	3,900	190	1,030	190	4,700	119	76	40	115	8
23	44	90	1,440	175	2,860	164	1,440	86	67	43	92	8
24	40	75	690	205	2,230	155	800	96	57	51	52	8
25	53	86	3,310	220	1,030	150	515	107	59	40	43	7
26	100	370	3,220	235	615	150	390	129	155	29	36	5
27	75	1,230	1,030	250	470	110	318	119	175	22	35	5
28	54	565	1,910	235	370	73	265	121	67	18	36	7
29	40	335	2,500	590	-------	94	235	250	46	16	29	5
30	28	300	1,030	910	-------	82	220	4,920	36	14	24	5
31	30	-------	615	1,440	-------	92	-------	1,910	-------	16	52	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	100	3	24.6	0.113	0.13
November	3,700	18	342	1.58	1.76
December	5,250	86	1,030	4.74	5.46
January	1,440	86	290	1.34	1.54
February	2,860	250	785	3.62	3.77
March	2,410	73	391	1.80	2.08
April	4,700	220	949	4.37	4.88
May	4,920	86	593	2.73	3.15
June	970	36	312	1.44	1.61
July	855	14	128	.590	.68
August	640	24	120	.553	.64
September	57	5	19.9	.092	.10
The year	5,250	3	413	1.90	25.80

SCIOTO RIVER BASIN

SCIOTO RIVER AT LARUE, OHIO

LOCATION.—Chain gage on highway bridge just below Cleveland, Cincinnati, Chicago & St. Louis Railway bridge at Larue, Marion County. Zero of gage is 910.19 feet above mean sea level.

DRAINAGE AREA.—255 square miles.

RECORDS AVAILABLE.—August, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,700 second-feet March 20 (gage height, 15.0 feet); minimum, 15 second-feet August 27, 28, September 4–7, and 24–29 (gage height, 2.20 feet).

1926–27: Maximum and minimum discharge occurred in 1927.

Maximum stage known, 17.8 feet March 26, 1913.

REMARKS.—Records good except those for periods of ice effect, December 15–19 and January 6–18, and for period for which gage-height record is missing, December 30 to January 5, which are fair. Gage-height record furnished by United States Weather Bureau.

Daily discharge, in second-feet, 1926–27

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1926			1926			1926		
1	50	16	11	39	1,210	21	58	250
2	95	20	12	39	582	22	51	195
3	119	28	13	58	262	23	45	155
4	72	27	14	48	206	24	30	652
5	45	2,700	15	1,150	146	25	30	676
6	1,000	3,540	16	780	1,120	26	23	1,210
7	1,320	1,800	17	250	1,510	27	22	1,030
8	262	890	18	137	754	28	22	560
9	111	1,030	19	58	442	29	16	780
10	72	2,100	20	58	239	30	16	538
						31	17	------

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926–27												
1	442	1,210	175		1,090	274	834	628	337	39	111	21
2	365	538	137		702	206	2,820	311	195	33	111	18
3	728	351	119	60	582	165	1,150	165	155	33	111	16
4	1,610	262	111		1,000	137	604	165	146	33	79	15
5	2,180	217	103		890	128	728	128	286	33	51	15
6	3,700	195	95		2,100	146	1,510	111	175	33	39	15
7	1,800	155	95		1,320	498	582	95	119	30	33	15
8	974	137	83		702	628	337	79	103	30	28	23
9	518	137	111		442	394	262	79	87	30	28	79
10	365	185	111	60	365	286	1,210	87	72	27	23	337
11	298	155	95		250	217	560	79	65	27	20	137
12	298	128	99		195	185	311	65	58	27	18	119
13	206	87	79		185	394	239	58	54	26	18	124
14	185	91	79		185	834	460	62	51	26	23	128
15	165	99			582	460	460	65	51	51	23	58
16	137	128		55	628	337	239	79	51	76	18	51
17	206	128	120		460	217	228	103	48	45	18	39
18	250	128			239	137	206	103	39	33	18	28
19	175	103		103	311	780	217	4,180	58	26	18	23
20	128	95	65	1,870	239	7,180	324	3,860	62	23	18	23
21	119	79	65	2,480	195	8,140	206	1,460	45	23	18	18
22	111	68	65	2,940	165	3,380	175	676	628	58	17	17
23	99	51	65	3,380	137	1,560	137	460	582	1,000	16	16
24	137	68	72	1,870	311	1,000	119	702	175	946	16	15
25	1,280	72	72	1,000	286	702	103	676	103	374	18	15
26	1,320	165	65	628	1,060	478	95	628	195	137	17	15
27	628	425	65	298	582	365	119	460	95	87	15	15
28	365	286	65	286	286	324	165	262	65	65	15	15
29	628	217	65	379	------	250	155	425	51	65	18	15
30	1,120	195	60	3,540	------	217	1,560	1,090	39	137	18	18
31	1,410	------		2,480	------	206	------	834	------	175	23	------

Monthly discharge, in second-feet, of Scioto River at Larue, Ohio, 1926–27

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
1926					
August	1,320	16	197	0.773	0.89
September	3,540	16	822	3.22	3.59
1926–27					
October	3,700	99	708	2.77	3.19
November	1,210	51	205	.804	.90
December			92.8	.364	.42
January	3,540		720	2.82	3.25
February	2,100	137	553	2.17	2.26
March	8,140	128	975	3.82	4.40
April	2,820	95	537	2.11	2.35
May	4,180	58	586	2.30	2.65
June	628	39	140	.549	.61
July	1,000	23	119	.467	.54
August	111	15	32.2	.126	.15
September	337	15	48.1	.189	.21
The year	8,140	15	394	1.55	20.93

NOTE.—The above figures for August and September, 1926, supersede those published in Water-Supply Paper 623.

SCIOTO RIVER AT PROSPECT, OHIO

LOCATION.—Chain gage on highway bridge at Prospect, Marion County, five-eighths mile above Marion-Delaware County line. Zero of gage is 891.72 feet above mean sea level.

DRAINAGE AREA.—554 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,100 second-feet March 22 (gage height, 15.0 feet); minimum, 27 second-feet September 27 and 28 (gage height, 1.30 feet).

1925–1927: Maximum discharge, that of March 22, 1927; minimum, 5.8 second-feet September 5, 1925 (gage height, 1.12 feet).

Maximum stage known, 21.1 feet March 25, 1913 (discharge estimated at 27,000 second-feet by engineers of Franklin County Conservancy District).

REMARKS.—Records good. Discharge estimated December 17, May 7, and August 4.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	785	3,500	412	129	4,410	534	785	1,850	1,100	74	224	49
2	695	2,700	362	129	2,620	463	2,130	1,100	534	80	209	49
3	885	1,580	346	124	1,400	362	3,420	534	378	87	238	42
4	1,460	785	284	142	1,400	330	2,410	378	740	91	170	38
5	3,580	610	195	139	2,060	299	1,990	299	885	118	102	32
6	5,400	498	149	154	3,020	330	2,270	253	785	87	85	29
7	6,120	346	154	181	3,660	695	1,920	217	395	66	71	29
8	4,860	284	209	154	3,100	990	1,160	181	284	60	58	55
9	2,860	346	209	154	1,710	990	785	181	209	56	54	60
10	1,280	362	224	152	990	695	1,520	181	181	56	49	118
11	785	378	224	129	695	463	1,580	181	149	58	47	299
12	534	314	209	100	534	395	885	168	124	52	42	224
13	463	268	299	93	429	534	1,100	144	102	52	39	209
14	378	238	463	102	534	1,040	650	139	89	49	43	181
15	330	238	412	81	1,100	1,220	695	139	87	52	39	122
16	299	268	299	115	1,280	785	534	149	85	55	39	91
17	268	314	254	115	1,100	534	498	154	78	63	39	71
18	412	268	209	122	885	463	463	253	67	61	39	62
19	362	268	154	885	695	1,580	429	4,770	93	58	39	51
20	284	238	144	1,990	395	6,120	498	7,560	93	55	39	44
21	238	224	144	2,860	362	9,500	429	7,290	91	44	39	40
22	209	209	139	5,310	330	10,000	362	4,860	253	64	39	39
23	209	168	134	4,320	346	8,800	284	2,130	1,100	42	38	35
24	238	181	129	3,740	498	6,480	238	1,460	785	1,040	40	32
25	1,920	168	154	3,180	785	3,340	224	1,640	314	740	37	29
26	2,550	463	181	2,270	1,460	1,710	209	1,710	268	314	37	29
27	2,550	935	154	1,160	1,580	990	209	1,400	268	181	39	28
28	1,580	885	144	610	935	740	224	885	154	109	39	27
29	2,480	610	142	785	-------	610	498	570	111	67	39	47
30	3,100	463	129	2,270	-------	498	1,460	935	91	124	51	38
31	3,820	-------	129	4,320	-------	463	-------	1,460	-------	105	55	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,120	209	1,640	2.96	3.41
November	3,500	168	603	1.09	1.22
December	463	129	219	.395	.46
January	5,310	81	1,160	2.09	2.41
February	4,410	330	1,370	2.47	2.57
March	10,000	299	2,000	3.61	4.16
April	3,420	209	995	1.80	2.01
May	7,560	139	1,390	2.51	2.89
June	1,100	67	330	.596	.66
July	1,040	44	151	.273	.31
August	238	37	68.3	.123	.14
September	299	27	73.3	.132	.15
The year	10,000	27	833	1.50	20.39

SCIOTO RIVER NEAR DUBLIN, OHIO

LOCATION.—Water-stage recorder a quarter of a mile north of Delaware County line, three-fourths mile below O'Shaughnessy Dam, and 8 miles north of Dublin, Franklin County. Zero of gage is 775.00 feet above mean sea level.

DRAINAGE AREA.—988 square miles.

RECORDS AVAILABLE.—April, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 28,200 second-feet March 21 (gage height, 14.5 feet); minimum, 22 second-feet August 25 (gage height, 3.00 feet).

1921–1927: Maximum discharge, that of March 21, 1927; minimum, 0.4 second-foot November 8, 1924 (gage height, 2.21 feet).

The flood of March, 1913, reached a stage of 24.6 feet March 25.

REMARKS.—Records excellent. Water is stored at O'Shaughnessy Dam for water supply of city of Columbus. Monthly summaries of flow have been corrected for storage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,170	4,970	610	252	4,570	760	1,910	2,020	1,280	151	314	181
2	1,520	3,260	485	202	3,090	578	4,770	1,640	720	145	314	155
3	3,410	2,020	430	232	1,890	515	3,620	805	485	145	293	145
4	3,990	1,220	405	232	1,890	458	3,090	545	3,700	472	272	94
5	6,710	805	358	272	2,920	405	3,320	405	6,640	314	209	62
6	10,300	645	293	335	4,770	380	3,990	358	2,220	213	158	62
7	7,740	545	252	293	4,570	545	2,600	293	805	177	131	62
8	5,390	458	293	293	3,440	1,000	1,760	272	515	123	134	62
9	3,440	458	335	272	2,300	1,280	1,790	252	380	107	119	62
10	1,760	430	335	232	1,520	950	2,600	272	314	107	77	60
11	1,060	485	335	184	1,000	680	1,890	272	272	125	83	59
12	720	430	335	195	720	545	1,400	252	232	112	74	62
13	610	380	430	202	645	545	900	232	202	90	68	202
14	515	335	610	232	900	1,280	950	213	213	102	81	213
15	430	358	610	158	1,400	1,760	950	213	184	158	83	206
16	405	405	293	164	1,520	1,280	760	232	164	155	46	174
17	405	430	293	181	1,520	805	720	232	148	164	55	128
18	485	430	293	206	1,280	760	680	469	171	167	60	104
19	485	405	272	4,120	900	3,800	645	9,420	188	154	66	83
20	405	380	252	6,500	578	14,800	645	12,300	177	232	64	70
21	335	335	252	6,040	458	25,700	578	8,540	174	134	53	60
22	314	293	252	9,710	430	17,800	485	5,600	181	252	53	57
23	293	293	252	6,980	545	12,300	405	2,760	865	545	68	57
24	537	272	252	4,570	1,000	8,000	358	1,520	950	1,340	70	55
25	4,600	293	358	3,440	1,410	4,570	314	1,890	485	1,120	33	55
26	4,570	802	314	2,600	2,600	2,450	314	2,160	335	578	47	55
27	2,920	1,760	272	1,400	1,890	1,400	335	1,760	293	335	41	55
28	2,020	1,400	293	950	1,220	1,000	358	1,060	293	232	42	60
29	4,650	950	252	1,060	-------	760	570	900	213	199	63	74
30	7,740	720	213	4,180	-------	645	2,450	1,640	184	181	139	74
31	7,230	-------	232	5,180	-------	578	-------	1,640	-------	213	181	-------

Month	Observed			Corrected for storage		Corrected run-off in inches
	Maximum	Minimum	Mean	Mean	Per square mile	
October	10,300	293	2,780	2,800	2.83	3.26
November	4,970	272	866	843	.853	.95
December	610	213	337	333	.337	.39
January	9,710	158	1,960	1,990	2.01	2.32
February	4,770	430	1,820	1,800	1.82	1.90
March	25,700	380	3,490	3,490	3.53	4.07
April	4,770	314	1,510	1,510	1.53	1.71
May	12,300	213	1,940	1,940	1.96	2.26
June	6,640	148	766	759	.768	.86
July	1,340	90	276	276	.279	.32
August	314	33	113	105	.106	.12
September	213	55	94.9	94.9	.096	.11
The year	25,700	33	1,330	1,330	1.35	18.27

SCIOTO RIVER AT COLUMBUS, OHIO

LOCATION.—Water-stage recorder at sewage treatment works of city of Columbus, Franklin County, four-tenths mile below highway bridge on Frank Road. Zero of gage is 680.40 feet above mean sea level.

DRAINAGE AREA.—1,620 square miles.

RECORDS AVAILABLE.—April, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 28,600 second-feet March 21 (gage height, 24.7 feet); minimum, 93 second-feet September 7 (gage height, 5.82 feet).

1921–1927: Maximum discharge, that of March 21, 1927; minimum, 46 second-feet November 2, 1924 (gage height, 5.51 feet).

Maximum known stage, 25.9 feet on March 25, 1913.

REMARKS.—Records excellent. Water diverted above station for municipal water supply of Columbus. Flow regulated at Griggs and O'Shaughnessy Reservoirs for municipal water supply of Columbus. Table of monthly discharge shows mean discharge corrected for storage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,570	10,900	1,790	610	6,140	1,790	2,370	3,430	2,470	360	380	112
2	2,170	6,720	1,430	500	4,530	1,350	8,140	2,880	1,880	320	525	115
3	3,780	4,400	1,190	500	3,430	1,110	6,410	2,070	1,430	300	552	118
4	6,280	2,990	970	552	3,320	1,040	4,920	1,610	4,300	340	500	148
5	9,240	2,070	865	670	4,150	900	4,660	1,270	11,900	830	380	159
6	14,700	1,610	700	865	7,750	830	7,300	1,040	5,710	525	280	118
7	12,900	1,350	580	760	7,930	970	5,050	830	2,370	425	241	104
8	9,050	1,190	730	640	6,140	1,970	3,430	700	1,430	320	320	125
9	5,720	1,110	795	610	4,400	2,570	2,880	670	1,110	241	222	115
10	3,550	1,110	865	552	3,210	2,170	4,030	700	900	222	195	177
11	2,370	1,110	900	402	2,370	1,520	3,670	730	795	300	141	300
12	1,790	1,110	865	380	1,790	1,270	2,770	670	640	285	173	280
13	1,430	900	970	402	1,520	1,190	2,070	610	525	730	159	320
14	1,190	795	1,610	525	1,790	2,670	1,880	580	670	518	148	280
15	1,040	795	1,970	425	2,670	3,790	1,970	552	580	370	141	300
16	900	1,110	1,110	300	2,990	2,880	1,790	610	475	320	132	340
17	865	1,350	552	340	2,990	1,970	1,610	670	425	340	128	280
18	830	1,430	610	425	2,770	1,970	1,610	1,040	475	360	128	222
19	900	1,270	640	7,290	2,270	6,570	1,520	9,880	500	280	128	195
20	865	1,190	610	14,700	1,700	18,000	1,520	19,100	475	340	138	152
21	700	970	552	12,900	1,110	27,100	1,430	14,700	475	412	135	145
22	610	865	610	15,800	1,040	23,600	1,270	9,370	552	430	132	135
23	552	700	552	15,100	1,190	16,300	1,110	5,050	640	1,270	128	122
24	674	640	610	8,730	2,070	11,200	970	2,990	760	2,270	141	125
25	5,820	610	760	5,720	2,370	6,870	865	3,430	1,350	1,970	125	112
26	9,380	1,260	970	4,400	4,270	4,150	795	4,150	830	1,430	122	109
27	6,140	3,220	795	2,570	3,910	2,770	970	3,670	552	900	122	115
28	4,030	3,320	730	1,970	2,670	2,170	970	2,570	580	525	115	151
29	4,480	2,370	730	2,170	-------	1,790	1,110	2,990	552	403	122	207
30	13,400	1,880	580	5,810	-------	1,520	2,880	3,210	425	340	155	115
31	14,700	-------	500	7,960	-------	1,350	-------	2,880	-------	450	118	-------

Month	Observed			Corrected for storage (mean)
	Maximum	Minimum	Mean	
October	14,700	552	4,600	4,630
November	10,900	610	2,010	1,980
December	1,970	500	876	869
January	15,800	300	3,700	3,730
February	7,930	1,040	3,300	3,280
March	27,100	830	5,010	5,000
April	8,140	795	2,730	2,750
May	19,100	552	3,380	3,370
June	11,900	425	1,530	1,510
July	2,270	222	585	585
August	552	115	207	187
September	340	104	177	179
The year	27,100	104	2,340	2,340

SCIOTO RIVER AT CHILLICOTHE, OHIO

LOCATION.—Chain gage on Bridge Street Bridge at north end of Chillicothe, Ross County. Zero of gage is 594.02 feet above mean sea level.

DRAINAGE AREA.—3,850 square miles.

RECORDS AVAILABLE.—December, 1913, to September, 1914, and April, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 59,800 second-feet March 23 (gage height, 22.7 feet); minimum, 355 second-feet September 27–29 (gage height, 1.60 feet).

1921–1927: Maximum discharge, 60,700 second-feet March 31, 1924 (gage height, 22.9 feet); minimum, 190 second-feet September 11, 1925 (gage height, 1.08 feet).

Maximum known stage, 39.8 feet March 26, 1913 (discharge estimated at 260,000 second-feet by engineers of Franklin County Conservancy District).

REMARKS.—Records good. Water diverted for municipal water supply of Columbus. Flow regulated at Griggs and O'Shaughnessy Reservoirs; monthly mean discharge at this station only slightly affected. Table of monthly discharge of Scioto River at Columbus shows the effect of this regulation. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,640	26,100	3,860	2,320	14,900	5,220	3,980	7,520	6,020	1,160	1,420	505
2	4,360	27,500	3,640	2,210	10,100	3,640	13,000	5,540	4,360	1,070	1,070	450
3	4,920	17,900	3,090	1,910	7,520	3,090	17,900	4,220	3,420	990	1,420	450
4	5,700	7,520	2,540	2,010	7,160	2,760	14,400	3,420	4,220	1,330	1,240	425
5	13,500	5,380	2,430	2,980	7,520	2,540	8,660	3,530	11,000	1,420	1,160	425
6	17,600	4,220	2,540	3,640	11,700	2,430	13,000	3,310	20,900	1,420	990	400
7	21,200	3,640	2,760	3,530	14,900	2,320	15,200	2,540	21,500	1,240	830	450
8	24,700	3,200	2,010	2,980	14,400	2,320	8,660	2,110	5,540	990	830	450
9	19,900	3,860	2,210	2,210	9,880	3,420	6,500	1,910	3,750	990	830	505
10	7,520	2,980	2,650	2,010	6,820	3,980	7,520	1,910	2,870	760	1,070	450
11	5,380	3,640	2,870	1,710	5,540	3,530	8,660	2,010	2,650	795	830	760
12	3,980	3,090	2,760	1,420	4,500	2,870	6,180	1,910	3,750	870	690	1,420
13	3,310	2,760	2,760	1,420	3,860	2,540	5,060	1,810	2,870	870	625	830
14	2,760	2,320	3,090	1,520	3,980	3,310	4,220	1,710	3,200	1,330	658	830
15	2,540	2,320	3,860	1,710	5,380	10,300	4,100	1,910	3,520	1,070	595	760
16	2,320	3,420	3,530	1,520	6,820	7,700	3,860	1,710	2,760	1,070	505	625
17	2,760	6,020	2,010	1,520	6,020	4,780	3,640	2,110	2,110	1,610	565	625
18	2,110	4,220	1,710	1,330	6,180	4,220	3,420	2,540	1,910	1,330	535	625
19	2,010	3,530	1,610	3,090	6,660	9,260	3,750	3,860	2,430	1,240	535	625
20	2,010	3,200	1,610	19,900	5,220	18,300	3,420	15,800	2,540	1,070	535	625
21	1,910	2,760	1,610	36,700	3,860	31,200	3,090	28,300	2,110	1,160	535	505
22	1,710	2,430	1,610	46,400	3,420	54,500	2,870	32,400	1,810	1,240	565	400
23	1,520	2,210	2,010	43,100	5,060	58,500	2,540	19,900	1,910	2,540	535	400
24	1,520	1,710	2,870	44,700	6,980	38,700	2,320	7,880	2,110	2,540	505	400
25	8,660	1,520	2,540	30,900	6,820	25,000	2,110	5,860	2,320	3,200	505	400
26	15,800	1,910	4,920	13,000	6,020	13,500	1,810	6,980	2,010	2,650	505	400
27	19,200	5,060	4,780	7,880	8,460	7,520	2,010	7,520	1,710	2,010	478	355
28	11,700	7,160	3,310	5,380	6,500	5,540	2,210	6,980	1,420	1,520	450	355
29	6,500	3,860	3,640	5,860	.....	4,500	2,320	4,220	1,330	1,240	450	355
30	8,860	4,220	2,650	8,260	.....	3,860	3,750	9,660	1,160	990	478	400
31	19,500	.....	2,540	14,400	.....	3,420	.....	10,800	.....	1,070	505	.....

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	24,700	1,520	8,070	2.10	2.42
November	27,500	1,520	5,660	1.47	1.64
December	4,920	1,610	2,770	.719	.83
January	46,400	1,330	10,200	2.65	3.06
February	14,900	3,420	7,360	1.91	1.99
March	58,500	2,320	11,100	2.88	3.32
April	17,900	1,910	6,010	1.56	1.74
May	32,400	1,710	6,830	1.78	2.05
June	21,500	1,160	4,310	1.12	1.25
July	3,200	760	1,380	.358	.41
August	1,420	450	724	.188	.22
September	1,420	355	540	.140	.16
The year	58,500	355	5,420	1.41	19.09

LITTLE SCIOTO RIVER NEAR MARION, OHIO

LOCATION.—Staff gage in SW. ¼ sec. 19, T. 5 S., R. 15 E., at outfall of sewage-treatment works 300 feet below Erie Railroad crossing and 2 miles west of Marion.

DRAINAGE AREA.—73.3 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927. September, 1923, to July, 1925, at site 3 miles downstream.

EXTREMES.—Maximum discharge during year, 1,420 second-feet March 22, (gage height, 15.2 feet); minimum, 1.4 second-feet August 27 (gage height, 1.60 feet).

1923–1927: Maximum discharge, that of March 22, 1927; minimum, 0.6 second-foot September 11, 1925 (gage height, 1.55 feet).

REMARKS.—Records fair. Water diverted above station; amount not known.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	503	82	24	415	77	136	80	56	8.3	15	3.0
2	62	325	62	22	196	49	305	48	46	9.2	22	2.2
3	77	196	55	23	119	49	286	38	42	13	12	2.1
4	126	126	51	27	180	45	169	36	50	8.0	6.9	2.0
5	635	100	45	31	345	47	335	30	46	7.4	4.5	1.9
6	1,000	82	43	29	558	82	305	28	36	6.9	3.4	2.1
7	867	67	37	25	459	148	178	24	30	8.3	2.9	9.5
8	624	57	43	24	315	188	98	24	26	7.4	4.2	7.7
9	305	62	43	22	205	126	169	34	24	6.9	2.9	5.5
10	148	72	39	20	148	88	196	32	22	6.9	2.3	4.0
11	100	57	41	19	112	72	120	32	19	12	2.5	5.5
12	77	49	37	15	88	67	86	24	16	12	2.0	7.2
13	62	45	77	15	77	67	74	24	15	9.2	2.1	30
14	55	41	156	19	77	205	86	24	15	8.0	2.1	12
15	47	43	62	19	180	133	68	24	14	9.8	2.1	8.3
16	43	72	51	14	156	94	68	28	12	7.2	2.4	4.4
17	39	72	49	11	148	72	60	38	10	5.5	3.7	3.4
18	35	67	35	12	133	88	56	36	20	7.4	2.1	2.7
19	31	67	29	148	72	315	52	1,180	18	6.0	1.9	2.9
20	29	57	33	635	53	959	46	1,100	17	6.3	2.1	2.7
21	27	49	31	569	72	1,370	42	987	15	6.0	2.0	2.7
22	27	41	31	906	51	1,400	40	671	28	112	2.1	2.5
23	35	41	25	659	55	1,260	36	268	26	120	2.1	2.3
24	51	39	29	405	72	1,030	34	335	18	50	2.1	2.2
25	591	37	43	277	106	547	32	365	15	26	2.0	2.2
26	459	106	31	196	286	214	34	305	20	17	2.0	2.1
27	268	223	35	100	156	144	36	169	15	10	1.6	2.4
28	156	133	31	82	88	104	30	104	12	8.3	1.8	2.5
29	707	106	29	106	------	86	56	92	10	8.3	1.7	2.8
30	683	94	24	558	------	74	104	104	9.2	10	6.6	2.4
31	755	------	25	459	------	64	------	74	------	8.6	3.7	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	1,000	27	264	May	1,180	24	205
November	503	37	101	June	56	9.2	23.4
December	156	24	45.3	July	120	5.5	17.5
January	906	11	176	August	22	1.6	4.09
February	558	51	176	September	30	1.9	4.77
March	1,400	45	299				
April	335	30	111	The year	1,400	1.6	119

OLENTANGY RIVER NEAR DELAWARE, OHIO

LOCATION.—Water-stage recorder in NW. ¼ sec. 1, T. 5 N., R. 19 W., at highway bridge a quarter of a mile north of Pennsylvania Railroad crossing and 4 miles north of Delaware. Zero of gage is 876.92 feet above mean sea level.

DRAINAGE AREA.—387 square miles.

RECORDS AVAILABLE.—December, 1923, to September, 1927. October, 1921, to December, 1923, at Delaware.

EXTREMES.—Maximum discharge during year, 14,100 second feet March 21 (gage height, 16.9 feet); minimum, 18 second-feet September 7, 27, and 28 (gage height, 1.29 feet).

1921–1927: Maximum discharge, 15,000 second feet May 20, 1922 (gage height, 11.3 feet, at Delaware); minimum, 0.2 second-foot September 12, 1925 (gage height, 0.45 foot).

REMARKS.—Records excellent except those for October 1–21, for which gage-height record is missing, and those for December 17–22 and December 31 to January 18, which were estimated because of ice effect, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1,750	465		610	285	830	435	241	37	164	67
2		920	315		375	214	2,000	227	164	34	122	49
3		610	214	90	375	188	1,010	152	142	121	71	34
4		465	175		570	164	570	131	2,410	278	48	27
5	1,800	375	152		1,150	142	1,250	108	1,400	152	40	22
6		330	101		2,140	175	1,580	89	500	65	34	19
7		270	142		1,630	570	740	75	285	44	31	20
8		227	131	80	1,010	875	405	68	188	38	29	21
9		227	188		695	785	435	94	157	33	38	52
10		315	188		535	435	875	108	105	30	49	112
11	300	285	175		405	315	500	103	89	105	35	228
12		200	175		285	255	330	91	75	785	29	255
13		152	340		255	255	285	72	67	302	27	152
14		142	1,010		375	1,250	345	70	64	123	25	188
15		164	581	60	785	1,010	315	77	60	96	25	112
16		375	330		695	500	241	114	56	83	23	71
17		535			610	345	214	285	51	62	27	48
18	200	465			570	375	200	315	53	50	28	38
19		405		1,460	405	2,070	175	6,760	68	42	27	30
20		315	100	5,100	241	7,080	152	6,860	103	49	24	27
21		241		3,650	375	12,200	127	2,600	94	72	23	24
22	86	200		5,980	214	6,640	112	920	74	571	24	22
23	86	175	88	3,280	241	2,210	101	570	64	1,300	25	22
24	378	164	101	1,630	465	1,100	92	650	58	785	24	21
25	2,900	164	214	740	695	785	81	1,520	52	345	22	20
26	2,140	762	214	650	1,360	610	78	1,410	92	188	21	19
27	1,100	1,250	131	650	695	500	94	830	118	116	22	18
28	570	830	142	650	375	405	110	465	64	80	22	18
29	3,420	465	122	785	-------	315	339	375	49	60	20	20
30	4,100	500	101	1,870	-------	270	830	480	41	53	23	42
31	3,280	-------	90	1,360	-------	227	-------	375	-------	101	32	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	----------	----------	1,100	2.84	3.27
November	1,750	142	443	1.14	1.27
December	1,010	----------	209	.540	.62
January	5,980	----------	940	2.43	2.80
February	2,140	214	648	1.67	1.74
March	12,200	142	1,370	3.54	4.08
April	2,000	78	481	1.24	1.38
May	6,860	68	853	2.20	2.54
June	2,410	41	232	.599	.67
July	1,300	30	198	.512	.59
August	164	20	37.2	.096	.11
September	255	18	59.9	.155	.17
The year	12,200	18	550	1.42	19.24

BIG WALNUT CREEK AT REES, OHIO

LOCATION.—Chain gage on Scioto Valley Railway & Power Co.'s bridge at Rees, Franklin County. Zero of gage is 698.20 feet above mean sea level.
DRAINAGE AREA.—544 square miles.
RECORDS AVAILABLE.—August, 1921, to September, 1927.
EXTREMES.—Maximum discharge during year, 16,700 second-feet January 20 (gage height, 16.8 feet); minimum, 19 second-feet September 22 (gage height, 1.86 feet).

1921–1927: Maximum discharge, 18,000 second-feet March 29, 1924; minimum, 5 second-feet September 4, 5, and 10–12, 1925.

Maximum stage known, 20.5 feet (present datum) on March 25, 1913.
REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	520	2,250	710	264	710	280	1,230	710	520	75	498	32
2	452	1,170	610	251	565	610	4,300	390	390	71	610	30
3	1,540	815	520	264	815	230	1,540	350	350	67	610	28
4	5,320	565	475	264	1,960	176	990	610	1,470	60	230	25
5	5,430	354	610	710	1,890	156	1,540	520	6,870	56	79	25
6	6,640	498	610	815	3,330	214	2,100	370	1,170	56	73	24
7	1,610	452	542	372	2,250	214	760	280	610	53	69	24
8	930	264	390	264	1,290	390	520	230	390	50	140	23
9	610	322	565	251	930	452	990	211	315	50	125	23
10	498	990	660	226	760	280	1,170	246	263	45	62	23
11	354	610	660	149	660	246	660	246	298	38	56	40
12	610	354	610	149	498	214	430	246	214	263	83	107
13	264	710	710	149	520	246	390	230	199	143	48	87
14	251	251	1,290	292	815	4,500	498	187	246	87	41	69
15	226	251	1,230	264	1,960	1,680	430	176	263	190	35	53
16	251	2,570	264	129	870	870	350	410	211	263	31	85
17	203	1,680	264	129	815	542	350	710	184	280	28	62
18	251	760	181	129	870	1,050	280	1,110	208	184	28	56
19	251	542	149	3,600	760	3,330	280	9,070	280	138	34	38
20	238	430	149	15,800	410	11,700	280	6,530	246	135	34	33
21	160	338	170	5,980	280	14,800	263	1,470	214	173	30	24
22	160	278	238	7,470	298	6,090	263	710	214	230	27	20
23	149	251	251	5,870	990	1,610	246	542	211	230	25	20
24	181	251	278	1,610	2,410	1,110	214	930	156	298	71	23
25	6,310	238	710	990	1,110	760	187	1,230	135	246	24	25
26	2,730	1,290	710	760	2,170	610	181	1,680	130	173	22	22
27	1,170	1,410	410	354	990	520	246	990	114	135	20	20
28	660	990	475	452	498	475	246	520	103	100	23	22
29	660	610	410	990	-------	430	332	1,680	98	79	31	55
30	4,700	710	292	2,410	-------	370	1,350	2,730	94	77	40	53
31	6,640	-------	322	1,680	-------	350	-------	870	-------	170	33	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	6,640	149	1,610	2.96	3.41
November	2,570	238	740	1.36	1.52
December	1,290	149	499	.917	1.06
January	15,800	129	1,710	3.14	3.62
February	3,330	280	1,120	2.06	2.14
March	14,800	156	1,760	3.24	3.74
April	4,300	181	754	1.39	1.55
May	9,070	176	1,170	2.15	2.48
June	6,870	94	539	.991	1.11
July	298	38	136	.250	.29
August	610	20	105	.193	.22
September	107	20	39.0	.072	.08
The year	15,800	20	850	1.56	21.22

ALUM CREEK AT COLUMBUS, OHIO

LOCATION.—Water-stage recorder a quarter of a mile below Livingston Avenue Bridge at Columbus, Franklin County. Zero of gage is 773.62 feet above mean sea level.

DRAINAGE AREA.—190 square miles.

RECORDS AVAILABLE.—July, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,480 second-feet March 21 (gage height, 11.6 feet); minimum, 8 second-feet September 9 (gage height, 0.99 foot).

1923–1927: Maximum discharge, 6,130 second-feet March 29, 1924 (gage height, 12.1 feet); minimum, 1.8 second-feet September 7, 1925 (gage height, 0.79 foot).

REMARKS.—Records excellent.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	167	908	215	101	190	99	1,050	206	156	22	49	9
2	146	416	146	81	167	83	1,200	103	115	20	55	13
3	598	269	109	83	354	83	416	85	93	20	42	16
4	1,450	178	101	91	480	69	305	156	775	18	33	13
5	1,570	146	168	228	319	87	925	105	2,410	17	26	12
6	1,880	119	131	284	1,060	107	496	76	438	19	21	10
7	541	99	89	147	620	127	255	61	190	25	19	9
8	269	83	103	111	386	146	167	56	121	17	44	11
9	167	109	146	89	298	178	510	58	85	15	18	8
10	123	167	167	69	241	125	371	65	96	15	28	14
11	99	146	167	52	167	99	202	67	72	15	26	26
12	87	93	167	48	156	85	138	56	55	14	20	65
13	81	72	258	49	190	168	127	51	45	18	17	45
14	71	69	416	85	620	1,560	156	54	67	65	17	31
15	66	85	187	71	486	536	129	60	69	33	13	49
16	60	452	64	51	312	269	103	89	48	58	13	39
17	64	404	83	44	312	178	95	156	39	52	13	26
18	80	241	61	57	312	468	91	405	56	37	14	24
19	58	202	48	2,130	156	1,900	81	2,760	51	32	15	16
20	56	156	45	3,770	107	4,130	72	2,520	51	31	13	14
21	48	115	50	1,710	109	4,880	56	448	45	42	12	13
22	50	89	71	2,700	180	1,580	54	241	52	65	10	11
23	48	72	71	1,480	655	515	42	200	44	112	17	12
24	112	71	105	448	371	342	39	255	33	119	13	10
25	1,990	91	215	313	725	241	37	251	30	64	10	10
26	1,110	347	190	228	320	202	39	480	27	50	9	9
27	371	515	144	133	167	178	78	314	25	32	10	9
28	215	271	133	167	133	156	76	146	30	25	11	26
29	711	167	129	320	-------	133	147	900	30	21	17	12
30	1,860	241	99	725	-------	119	531	740	25	31	12	12
31	2,250	-------	109	421	-------	115	-------	269	-------	37	10	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,250	48	529	2.78	3.20
November	908	69	213	1.12	1.25
December	416	45	135	.711	.82
January	3,770	44	525	2.76	3.18
February	1,060	107	343	1.81	1.88
March	4,880	69	612	3.22	3.71
April	1,200	37	266	1.40	1.56
May	2,760	51	369	1.94	2.24
June	2,410	25	179	.942	1.05
July	119	14	36.8	.194	.22
August	55	9	20.2	.106	.12
September	65	8	19.1	.100	.11
The year	4,880	8	271	1.43	19.34

DARBY CREEK AT DARBYVILLE, OHIO

LOCATION.—Staff gage at highway bridge three-eighths mile northeast of Darbyville, Pickaway County. Zero of gage is 713.64 feet above mean sea level.
DRAINAGE AREA.—533 square miles.
RECORDS AVAILABLE.—October, 1921, to September, 1927.
EXTREMES.—Maximum discharge during year, 9,800 second-feet January 21 and March 21 (gage height, 11.0 feet); minimum, 20 second-feet September 27 (gage height, 2.10 feet).
1921–1927: Maximum discharge, 14,300 second-feet March 30, 1924 (gage height, 13.2 feet); minimum, 7.5 second-feet September 10–12, 1925 (gage height, 1.54 feet).
REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	970	2,820	425	310	1,350	498	1,510	770	645	133	72	39
2	835	1,430	352	236	770	420	3,760	645	615	127	90	32
3	1,510	970	310	252	738	370	1,600	470	585	12[illegible]	118	33
4	2,710	770	289	252	525	348	1,190	585	615	11[illegible]	158	33
5	3,760	615	330	330	1,270	302	1,780	420	6,270	15[illegible]	118	30
6	5,130	558	425	450	2,490	280	3,040	370	1,690	133	77	28
7	1,970	502	270	375	1,430	302	1,110	325	970	12[illegible]	67	25
8	1,040	425	310	352	970	302	835	302	705	116	133	25
9	835	400	330	289	835	325	835	280	615	9[illegible]	99	28
10	615	400	375	289	738	325	1,970	280	420	8[illegible]	65	53
11	450	375	375	219	645	271	970	271	470	8[illegible]	53	370
12	425	330	375	236	585	237	705	254	370	77	53	199
13	375	310	425	252	498	233	645	222	325	72	49	104
14	330	289	530	236	555	555	770	226	370	8[illegible]	49	77
15	289	270	425	219	1,110	705	645	237	370	77	53	90
16	270	352	175	204	835	525	585	258	302	77	53	77
17	252	352	270	236	770	420	615	237	280	22[illegible]	58	72
18	236	330	450	204	738	738	645	280	370	16[illegible]	51	41
19	219	289	330	645	645	1,040	585	2,380	420	15[illegible]	53	39
20	219	270	236	6,270	445	4,850	585	3,760	370	127	58	33
21	189	252	219	9,800	395	9,120	498	1,690	280	10[illegible]	49	33
22	189	236	252	5,410	420	6,270	445	970	254	199	51	32
23	175	219	289	7,170	705	2,170	395	705	263	199	49	30
24	204	219	289	2,070	970	1,510	348	615	237	226	53	28
25	1,110	219	450	1,190	970	1,190	325	835	214	148	49	28
26	3,520	289	475	970	1,270	1,040	280	970	199	118	47	25
27	970	1,040	425	835	970	900	325	835	178	10[illegible]	43	20
28	705	770	330	770	645	675	645	645	158	90	33	33
29	615	530	330	1,110	-------	585	555	1,870	145	65	39	37
30	3,520	425	289	2,070	-------	555	1,110	1,970	145	77	35	39
31	4,290	-------	204	1,780	-------	498	-------	705	-------	82	33	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,130	175	1,220	2.2[illegible]	2.64
November	2,820	219	542	1.0[illegible]	1.14
December	530	175	341	.640	.74
January	9,800	204	1,450	2.72	3.14
February	2,490	395	867	1.63	1.70
March	9,120	233	1,210	2.27	2.62
April	3,760	280	977	1.83	2.04
May	3,760	222	786	1.47	1.70
June	6,270	145	628	1.18	1.32
July	226	65	121	.227	.26
August	158	33	64.8	.122	.14
September	370	20	57.8	.108	.12
The year	9,800	20	689	1.2[illegible]	17.56

PAINT CREEK NEAR GREENFIELD, OHIO

LOCATION.—Chain gage at highway bridge in Fayette County a quarter of a mile north of county line and 2 miles north of Greenfield, Highland County.
DRAINAGE AREA.—251 square miles.
RECORDS AVAILABLE.—August, 1926, to September, 1927.
EXTREMES.—Maximum discharge during period of record, about 6,340 second-feet August 17, 1926 (gage height, 10.5 feet); minimum, 1.7 second-feet September 26, 1927 (gage height, 0.41 foot).
REMARKS.—Records good except for very high water, for which they are poor. Discharge interpolated December 6, July 25, and 26.

Daily and monthly discharge, in second-feet, 1926–27

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	------	160	282	1,130	202	202	582	247	1,500	418	156	55	29	6.1
2	------	344	282	1,260	180	160	498	168	1,380	292	133	52	27	5.2
3	------	360	510	470	160	160	477	193	975	247	118	48	26	4.5
4	------	282	360	360	160	282	437	206	820	309	141	42	27	3.9
5	------	215	1,770	312	141	470	1,080	168	920	262	133	36	22	3.3
6	------	296	1,330	240	128	510	1,080	180	1,080	232	292	33	16	2.9
7	------	1,130	950	215	114	395	674	168	628	193	156	32	14	2.9
8	------	490	550	190	123	268	437	180	437	193	129	29	98	2.9
9	------	344	395	202	132	202	399	168	1,030	180	111	27	180	4.2
10	------	268	296	190	170	190	342	156	770	232	103	27	79	6.4
11	94	202	282	170	170	150	309	143	477	180	145	27	68	9.2
11	100	160	215	150	170	132	276	137	361	168	137	21	47	7.3
13	94	141	180	150	170	150	276	145	456	156	122	18	35	5.2
14	72	123	160	141	150	202	582	498	399	206	342	17	29	7.8
15	412	107	141	141	150	150	456	380	309	262	418	17	35	5.8
16	3,010	100	412	150	114	180	361	292	292	218	262	15	23	3.9
17	5,200	87	550	150	228	180	326	247	276	180	193	63	18	2.9
18	3,600	141	360	141	150	296	920	1,200	342	247	218	53	18	2.6
19	4,380	114	240	123	132	1,920	540	1,140	380	920	168	37	18	2.2
20	2,300	100	202	114	114	3,010	399	1,910	342	1,140	145	36	18	2.2
21	1,400	94	180	114	123	3,420	380	2,640	292	674	139	24	16	2.9
22	895	114	160	107	160	3,510	456	2,500	232	418	133	180	15	2.0
23	640	114	150	100	141	3,170	1,080	1,140	206	326	118	139	12	2.0
24	470	785	1,330	100	160	2,340	820	720	180	262	98	108	10	2.0
25	378	1,010	1,700	100	296	1,200	582	498	156	262	84	84	9.2	2.0
26	282	328	1,130	228	395	820	477	418	156	292	127	59	7.3	1.7
27	228	360	730	395	312	456	380	342	180	247	103	35	6.9	2.2
28	190	312	470	296	254	540	292	292	156	193	81	27	7.3	2.2
29	160	268	595	254	282	540	------	247	309	180	71	24	7.3	2.8
30	132	268	950	228	240	1,080	------	218	770	168	60	24	6.9	2.6
31	123	------	1,540	------	215	870	------	206	------	180	------	55	8.2	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
1926					
August 11-31	5,200	72	1,150	4.58	3.58
September	1,130	87	294	1.17	1.30
1926–27					
October	1,770	141	594	2.37	2.73
November	1,260	100	264	1.05	1.17
December	395	114	182	.725	.84
January	3,510	132	876	3.49	4.02
February	1,080	276	533	2.12	2.21
March	2,640	137	553	2.20	2.54
April	1,500	156	527	2.10	2.34
May	1,140	156	304	1.21	1.40
June	418	60	155	.618	.69
July	180	15	46.6	.186	.21
August	180	6.9	30.1	.120	.14
September	9.2	1.7	3.79	.015	.02
The year	3,510	1.7	339	1.35	18.31

PAINT CREEK NEAR BOURNEVILLE, OHIO

LOCATION.—Water-stage recorder at highway bridge 1¼ miles southwest of Bourneville, Ross County, and 1¼ miles above Twin Creek.

DRAINAGE AREA.—808 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 18,600 second-feet January 22 (gage height, 14.7 feet); minimum, 39 second-feet September 27 (gage height, 2.20 feet).

1923–1927: Maximum discharge, 27,700 second-feet August 20, 1926 (gage height, 17.9 feet); minimum, 14 second-feet September 12 and 13, 1925 (gage height, 1.69 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Discharge estimated February 23 to April 14, April 16–18, and August 7–29, for which gage-height records are missing.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	735	2,920	705	820	2,100			1,890	520	265	402	161
2	1,490	1,890	605	705	1,720			1,200	445	251	237	97
3	7,820	1,420	560	655	1,560			940	413	853	198	82
4	1,890	1,130	520	952	1,420		3,200	1,280	1,270	323	237	73
5	5,390	940	520	1,560	3,660	900		1,060	958	251	198	64
6	4,620	820	520	1,420	4,000			880	520	224	161	60
7	2,560	760	445	1,200	2,780			760	560	198		59
8	1,640	705	480	880	1,800			705	413	198	450	58
9	1,200	705	480	705	1,490			655	383	173		149
10	940	760	520	655	1,270			737	353	159		87
11	820	655	560	560	1,200		1,900	760	917	154		67
12	705	560	560	480	1,130			605	480	185		112
13	655	520	605	520	1,130			560	383	142	270	113
14	605	520	655	883	2,900			892	2,080	125		90
15	560	520	560	760	1,800	1,850	1,130	1,060	1,600	118		74
16	691	655	445	560	1,420			940	1,060	125		62
17	1,560	605	413	605	1,270		1,100	760	1,000	1,080		55
18	1,200	560	480	772	2,450			1,060	1,660	630		53
19	880	520	480	8,340	1,800		2,280	2,280	1,430	308		49
20	760	480	413	14,200	1,560		1,270	2,440	760	293		44
21	655	480	480	12,400	1,490		1,060	1,800	605	211		44
22	605	445	941	15,500	1,490		940	1,200	560	357		43
23	560	445	760	12,400		11,000	760	940	520	605	135	42
24	2,100	413	655	6,890			705	820	413	368		46
25	6,160	413	880	3,550			655	820	383	265		44
26	3,160	560	1,970	2,680	1,800		605	760	480	211		41
27	1,890	940	1,200	1,640			705	705	413	173		41
28	1,420	880	1,130	1,830			605	605	338	149		41
29	1,400	760	1,340	2,740		1,800	1,250	560	308	135		40
30	2,470	760	1,000	3,500			4,650	712	279	132	90	40
31	4,830		880	2,800				752		1,220	322	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	7,820	560	2,000	2.48	2.86
November	2,920	413	791	.979	1.09
December	1,970	413	702	.869	1.00
January	15,500	480	3,330	4.12	4.75
February			1,870	2.31	2.40
March			3,010	3.73	4.30
April		605	1,850	2.29	2.56
May	2,440	560	1,000	1.24	1.43
June	2,080	279	717	.887	.99
July	1,080	118	319	.395	.46
August			222	.275	.32
September	161	40	67.7	.084	.09
The year	15,500	40	1,324	1.64	22.25

LITTLE SALT CREEK NEAR JACKSON, OHIO

LOCATION.—Chain gage in SE. ¼ sec. 12, T. 7 N., R. 19 W., at highway bridge 3½ miles northwest of Jackson and half a mile below mouth of Rock Run.

DRAINAGE AREA.—76.5 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,360 second-feet January 21 (gage height, 12.6 feet); minimum, 1.3 second-feet September 26 and 27 (gage height, 0.53 foot).

1925–1927: Maximum discharge, 1,470 second-feet August 18, 1926 (gage height, 13.2 feet); minimum, 0.4 second-foot September 9, 1925 (gage height, 0.52 foot).

REMARKS.—Records good except those for extremely high and extremely low water, which are fair. Discharge estimated January 12.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	292	168	112	106	100	635	677	22	5.8	112	25
2	38	176	94	82	100	88	385	184	20	8.0	40	10
3	192	125	82	88	88	66	160	112	18	50	22	8.0
4	46	82	66	88	82	54	160	451	132	16	15	7.3
5	71	61	66	71	176	51	132	352	125	10	11	5.8
6	58	44	61	58	227	61	100	139	48	8.0	7.3	5.1
7	38	41	54	46	245	54	76	88	35	7.3	5.8	4.4
8	25	38	66	36	146	184	66	100	23	6.6	32	4.8
9	18	71	66	31	106	112	352	88	19	5.5	132	8.0
10	15	88	160	36	82	82	429	78	17	5.1	100	7.3
11	15	58	125	34	76	66	160	100	21	4.4	35	7.3
12	14	46	100	27	76	61	112	72	16	3.9	16	5.1
13	17	44	176	26	106	56	139	45	16	3.2	11	4.4
14	21	41	139	146	691	332	176	69	50	2.6	100	3.7
15	15	76	100	94	484	176	118	139	38	4.4	192	3.0
16	13	622	66	76	209	118	106	153	16	6.6	153	2.6
17	14	352	48	46	106	94	100	112	12	38	50	2.0
18	12	153	38	71	302	352	76	153	100	15	24	2.3
19	10	125	22	496	396	473	200	209	66	6.6	17	2.0
20	17	82	36	1,120	312	440	88	118	32	3.7	15	1.7
21	21	71	118	1,290	254	790	106	83	22	4.4	11	1.6
22	16	54	508	1,260	254	385	88	56	18	6.6	9.6	1.4
23	14	46	302	1,120	719	192	71	45	16	19	8.0	1.4
24	168	44	184	705	663	125	56	40	13	10	6.6	1.5
25	691	38	218	292	302	106	51	42	14	5.1	5.8	1.4
26	407	54	761	168	227	88	46	48	11	3.5	3.9	1.4
27	146	46	396	112	153	66	236	29	9.6	2.6	3.5	1.4
28	82	31	245	94	118	58	118	25	8.0	2.0	3.9	1.5
29	112	51	508	227	------	51	263	58	7.3	1.6	3.9	1.6
30	139	160	209	263	------	46	957	45	6.6	6.6	58	1.6
31	609	------	146	153	------	46	------	29	------	48	118	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	691	6.5	98.7	1.29	1.49
November	622	31	107	1.40	1.56
December	761	22	172	2.25	2.59
January	1,290	26	273	3.57	4.12
February	719	76	243	3.18	3.31
March	790	46	160	2.09	2.41
April	957	46	192	2.51	2.80
May	677	25	127	1.66	1.91
June	132	6.6	31.7	.414	.46
July	50	1.6	10.3	.135	.16
August	192	3.5	42.7	.558	.64
September	25	1.4	4.49	.059	.07
The year	1,290	1.4	121	1.58	21.52

WHITEOAK CREEK BASIN

WHITEOAK CREEK NEAR GEORGETOWN, OHIO

LOCATION.—Chain gage on highway bridge 600 feet below mouth of Opposum Run and 1¾ miles southwest of Georgetown, Brown County.

DRAINAGE AREA.—221 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,330 second-feet January 20 (gage height, 9.5 feet); minimum, 3.4 second-feet September 23 and 24 (gage height, 0.59 foot).

1923–1927: Maximum discharge, 6,800 second-feet December 31, 1923 (gage height, 11.0 feet); minimum, 0.8 second-foot September 1, 1925 (gage height, 0.35 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	141	552	197	197	235	114	4,140	412	103	17	309	9.0
2	114	222	125	141	197	88	596	174	67	15	100	9.0
3	470	141	88	152	174	75	263	117	52	15	60	8.4
4	174	105	76	1,050	152	72	197	885	3,620	14	45	7.7
5	995	89	75	641	1,890	75	185	309	490	15	62	6.4
6	1,480	81	67	263	785	76	185	135	141	12	42	5.8
7	209	67	67	152	596	100	112	100	91	12	27	5.4
8	110	60	55	108	222	342	93	107	70	15	412	5.4
9	80	89	58	73	162	235	1,610	114	52	10	1,110	5.4
10	61	325	293	62	125	116	531	249	43	9.0	162	687
11	50	152	235	78	119	88	197	263	38	12	76	103
12	46	80	152	60	114	78	125	116	32	8.7	45	42
13	40	61	235	54	185	76	110	83	35	7.7	31	25
14	37	55	325	885	2,800	2,330	185	1,680	1,420	6.1	278	13
15	32	73	116	325	552	359	141	735	394	7.1	1,170	10
16	29	431	55	75	235	197	108	278	114	11	135	7.7
17	27	174	37	117	185	141	133	162	68	1,540	73	6.4
18	25	110	27	309	1,110	2,640	152	162	1,420	940	51	5.4
19	23	88	18	4,230	510	2,480	3,120	2,800	552	125	40	4.9
20	31	72	61	4,680	431	1,820	376	470	174	52	42	4.5
21	26	60	359	2,640	470	4,230	185	185	96	30	35	4.0
22	38	47	1,610	4,950	995	735	137	129	86	35	52	3.6
23	32	40	552	2,100	2,030	309	103	93	107	342	31	3.6
24	96	42	552	1,110	687	197	83	110	83	105	21	3.6
25	3,200	43	995	490	376	152	70	552	47	42	15	4.7
26	412	325	2,180	325	394	125	62	222	35	22	14	4.0
27	174	641	394	117	209	101	56	100	35	15	12	4.0
28	119	174	940	174	139	86	51	70	31	58	10	3.6
29	222	141	1,170	1,350	-------	76	1,290	62	22	80	9.0	4.5
30	885	412	394	1,960	-------	67	3,540	431	20	23	9.0	5.8
31	2,400	-------	235	552	-------	76	-------	359	-------	2,030	-------	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,200	23	380	1.72	1.98
November	641	40	165	.747	.83
December	2,180	18	379	1.71	1.97
January	4,950	54	949	4.29	4.95
February	2,800	114	574	2.60	2.71
March	4,230	67	570	2.58	2.97
April	4,140	51	605	2.74	3.06
May	2,800	62	376	1.70	1.96
June	3,620	20	318	1.44	1.61
July	2,030	6.1	181	.819	.94
August	1,170	9.0	144	.652	.75
September	687	3.6	33.8	.153	.17
The year	4,950	3.6	389	1.76	23.90

LITTLE MIAMI RIVER BASIN

LITTLE MIAMI RIVER AT SPRING VALLEY, OHIO

LOCATION.—Chain gage on highway bridge three-eighths mile southwest of Spring Valley, Greene County.
DRAINAGE AREA.—361 square miles.
RECORDS AVAILABLE.—September, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 8,220 second-feet January 19 (gage height, 12.6 feet); minimum, 71 second-feet September 24–27 (gage height, 1.66 feet).
1925–1927: Maximum discharge, that of January 19, 1927; minimum, 52 second-feet July 25, 1926 (gage height, 1.45 feet).
REMARKS.—Records good except those for periods of estimated discharge, which are fair. Discharge estimated January 3–6 and February 8 to March 5.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	610	1,800	306	366	935		3,100	461	306	164	196	95
2	690	1,020	292	366	850		1,440	396	278	164	156	88
3	770	610	278		810	300	1,020	351	265	164	147	82
4	1,680	534	278		810		935	570	1,020	156	138	82
5	3,020	464	278	230	1,440		4,350	464	1,280	147	130	76
6	1,500	430	292		1,170	252	1,440	366	570	147	130	76
7	810	381	278	396	850	278	850	321	396	147	123	82
8	730	336	306	430		306	690	351	336	138	164	88
9	464	366	381	381	700	396	1,980	321	306	138	206	147
10	396	351	366	292		430	850	336	278	130	156	156
11	217	321	351	265		464	650	321	292	130	138	138
12	321	292	336	240		464	534	292	252	123	130	109
13	292	292	336	217	480	199	810	278	228	123	123	95
14	265	306	351	206		430	534	292	610	123	116	88
15	252	351	336	185		381	499	464	351	164	109	82
16	499	336	306	196		336	464	306	292	156	109	88
17	570	306	265	206		321	464	292	252	185	109	82
18	381	292	265	252	440	610	610	610	336	147	116	76
19	321	278	252	7,100		2,590	730	3,100	321	130	116	76
20	321	252	240	7,380		4,780	570	1,220	278	130	116	76
21	265	240	336	4,160		6,400	464	690	252	123	116	76
22	252	240	499	6,400		2,600	430	464	278	464	116	82
23	252	228	430	3,900	330	1,220	396	430	240	196	109	82
24	1,500	228	366	1,740		935	351	464	217	156	102	76
25	1,440	278	336	1,330		770	351	850	206	138	88	71
26	1,120	534	336	890		610	336	690	206	130	95	71
27	650	366	336	810	480	534	381	430	206	123	102	71
28	570	396	351	1,020		499	336	366	185	130	95	82
29	1,020	366	351	1,170	-------	464	610	336	174	174	88	138
30	1,920	336	381	1,220	-------	430	650	430	174	147	95	116
31	2,250	-------	381	1,070	-------	396	-------	366	-------	366	95	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,020	217	818	2.27	2.62
November	1,800	228	418	1.16	1.29
December	499	240	329	.911	1.05
January	7,380	185	1,390	3.85	4.44
February	1,440	----------	595	1.65	1.72
March	6,400	252	932	2.58	2.97
April	4,350	336	894	2.48	2.77
May	3,100	278	536	1.48	1.71
June	1,280	174	346	.958	1.07
July	464	123	163	.452	.52
August	206	88	124	.343	.40
September	156	71	91.6	.254	.28
The year	7,380	71	554	1.53	20.84

LITTLE MIAMI RIVER AT MILFORD, OHIO

LOCATION.—Chain gage on highway bridge in Milford, Clermont County, 1¼ miles above mouth of East Fork.

DRAINAGE AREA.—1,190 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 33,100 second-feet January 22 (gage height, 11.4 feet); minimum, 68 second-feet September 28 (gage height, 0.86 foot).

1925–1927: Maximum discharge, 41,200 second-feet August 19, 1926 (gage height, 12.9 feet); minimum, 38 second-feet September 9, 1925 (gage height, 0.60 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,540	3,430	955	1,240	3,100	1,180	10,700	1,360	850	179	505	168
2	1,480	2,020	800	850	2,620	900	4,510	1,300	490	169	393	147
3	1,480	1,610	800	800	1,880	750	2,780	1,180	700	183	230	111
4	2,620	1,610	750	850	2,020	700	2,170	1,120	700	186	198	105
5	30,100	1,610	700	850	2,020	700	5,660	1,120	498	186	179	73
6	6,910	1,540	700	850	4,930	800	4,310	1,060	498	186	149	95
7	3,100	1,480	700	800	2,780	800	5,400	955	750	183	124	107
8	1,880	1,420	750	1,120	2,170	750	5,400	1,060	652	179	3,100	158
9	1,420	1,360	800	498	1,880	700	4,130	1,240	605	172	1,360	158
10	750	1,180	900	490	1,420	700	2,780	1,060	482	172	530	215
11	750	1,120	900	468	1,360	700	1,610	1,010	438	166	240	285
12	700	1,010	900	445	1,360	700	1,360	1,010	380	159	215	245
13	700	900	850	432	1,360	1,420	1,420	1,010	426	146	207	161
14	700	700	850	412	1,240	1,740	1,360	1,180	468	141	1,420	113
15	605	700	800	386	1,240	1,420	1,420	1,740	800	135	430	103
16	562	700	800	505	1,240	800	1,420	1,060	605	135	203	99
17	2,780	652	800	490	4,510	2,020	1,420	3,430	605	141	171	105
18	1,480	652	800	955	4,310	8,310	1,420	4,510	1,300	135	174	107
19	850	605	900	13,800	4,130	7,260	2,320	5,960	1,300	141	178	78
20	800	605	850	17,000	2,780	11,600	1,880	4,510	1,240	144	203	86
21	652	562	850	20,100	2,470	24,600	1,540	3,950	1,060	144	192	82
22	520	700	900	33,100	2,170	13,800	1,060	1,360	900	194	240	80
23	605	750	1,180	13,400	1,880	3,100	900	1,240	652	285	192	87
24	3,100	700	1,180	4,710	1,480	2,620	900	1,300	468	320	111	71
25	10,300	700	1,240	4,130	1,610	2,170	900	1,880	452	243	103	71
26	2,780	1,360	1,300	3,100	1,540	1,610	850	1,540	266	152	95	71
27	1,880	1,480	1,300	2,940	1,420	1,540	900	955	225	176	111	71
28	2,170	1,360	1,300	2,780	1,300	1,360	2,170	900	206	234	91	82
29	2,940	1,180	1,240	2,470	-------	1,360	2,780	955	194	338	84	135
30	4,310	1,120	1,240	5,960	-------	1,360	2,780	900	186	300	73	141
31	6,910	-------	1,180	3,430	-------	1,880	--------	900	-------	344	77	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	30,100	520	3,140	2.64	3.04
November	3,430	562	1,160	.975	1.09
December	1,300	700	942	.792	.91
January	33,100	386	4,500	3.78	4.36
February	4,930	1,240	2,220	1.87	1.95
March	24,600	700	3,200	2.69	3.10
April	10,700	850	2,610	2.19	2.44
May	5,960	900	1,700	1.43	1.65
June	1,300	186	613	.515	.57
July	344	135	193	.162	.19
August	3,100	73	373	.313	.36
September	285	71	120	.101	.11
The year	33,100	71	1,730	1.45	19.77

EAST FORK OF LITTLE MIAMI RIVER AT PERINTOWN, OHIO

LOCATION.—Chain gage on highway bridge at Perintown, Clermont County, 5 miles above junction with Little Miami River.

DRAINAGE AREA.—477 square miles (area published incorrectly as 459 square miles in Water-Supply Papers 603 and 623).

RECORDS AVAILABLE.—May, 1915, to May, 1920, and January, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 19,800 second-feet January 19 (gage height, 17.6 feet); minimum, 9.2 second-feet September 24 and 26 (gage height, 0.82 foot).

1915–1920: Maximum gage height, 19.77 feet April 20, 1920; minimum, —0.18 foot October 3–6, 1917. Discharge not determined.

1925–1927: Maximum discharge, 20,700 second-feet February 14, 1926 (gage height, 18.0 feet); minimum, 3 second-feet June 21, 1925 (gage height, 0.76 foot).

REMARKS.—Records good, except those for extremely high water, which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	426	1,960	465	426	605	256	8,680	1,230	256	34	1,540	24
2	1,110	635	290	246	460	168	2,200	421	158	34	300	23
3	780	389	206	372	402	168	695	270	118	127	180	31
4	830	275	159	2,600	349	147	480	1,170	3,110	63	158	31
5	12,800	219	138	2,120	4,010	168	332	740	1,680	45	147	29
6	4,780	170	148	1,050	2,520	158	650	300	270	29	118	23
7	880	170	119	465	2,360	168	384	204	168	28	95	24
8	408	148	138	246	695	366	229	332	137	31	3,290	20
9	275	148	128	170	440	384	1,230	349	100	23	2,760	16
10	206	465	485	170	332	256	890	560	90	22	520	18
11	159	338	408	148	285	180	520	650	69	21	242	460
12	148	182	290	128	285	147	285	270	69	21	147	147
13	138	148	389	138	480	158	256	180	127	18	106	73
14	128	128	545	880	3,790	1,960	480	2,760	1,290	20	3,690	46
15	115	119	260	730	1,540	790	402	1,230	1,170	19	1,960	36
16	108	930	119	290	560	384	256	560	242	14	384	27
17	98	485	101	170	366	256	229	402	147	1,540	191	23
18	98	275	90	275	990	6,380	229	605	300	990	137	21
19	88	182	78	14,700	940	5,740	3,590	6,510	1,230	300	102	20
20	119	148	96	14,700	650	4,340	840	1,540	560	137	89	15
21	108	138	206	5,620	695	9,880	440	500	229	81	216	15
22	98	112	2,760	15,800	1,610	2,200	270	480	158	62	158	13
23	87	90	1,230	6,120	3,690	1,350	216	242	168	109	97	13
24	1,540	95	1,680	2,520	1,410	500	168	316	147	106	56	9.8
25	6,510	148	1,680	1,050	840	366	158	890	104	86	49	12
26	1,470	780	3,110	605	740	270	127	366	82	52	40	9.2
27	446	1,540	1,290	349	480	204	137	191	61	36	33	10
28	322	505	1,050	300	332	191	118	147	45	31	31	14
29	990	290	1,680	1,610	-------	168	605	118	46	26	29	15
30	2,680	780	830	3,790	-------	158	6,900	460	35	68	27	23
31	4,780	-------	465	1,170	-------	158	-------	1,230	-------	34	27	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,800	87	1,380	2.89	3.33
November	1,960	90	400	.839	.94
December	3,110	78	666	1.40	1.61
January	15,800	128	2,550	5.35	6.17
February	4,010	285	1,140	2.39	2.49
March	9,880	147	1,230	2.58	2.97
April	8,680	118	1,070	2.24	2.50
May	6,510	118	814	1.71	1.97
June	3,110	35	412	.864	.96
July	1,540	14	136	.285	.33
August	3,690	27	546	1.14	1.31
September	460	9.2	41.0	.086	.10
The year	15,800	9.2	866	1.82	24.68

MIAMI RIVER BASIN

MIAMI RIVER AT SIDNEY, OHIO

LOCATION.—Water-stage recorder at North Street Bridge at Sidney, Shelby County. Zero of gage is 924.74 feet above mean sea level.

DRAINAGE AREA.—543 square miles.

RECORDS AVAILABLE.—February, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, about 20,700 second-feet March 20 (gage height, 14.4 feet); minimum, 111 second-feet September 5 (gage height, 1.30 feet).

1914–1927: Maximum discharge, that of March 20, 1927; minimum, 9 second-feet, September 18 and 19, 1917 (gage height, −1.5 feet).

Maximum stage known, 19.6 feet (present datum), March 25, 1913 (discharge estimated by Miami Conservancy District at 44,000 second-feet).

REMARKS.—Records excellent, except those for extremely high water, which are fair. Water to feed Miami & Erie Canal is diverted from river at Port Jefferson. Flow in canal feeder not included in tables of discharge.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,450	1,940	555	190	2,340	655	2,300	895	1,200	190	304	136
2	1,870	1,320	477	222	1,660	515	3,080	555	895	190	485	127
3	1,870	990	441	190	1,450	515	2,260	441	895	190	477	119
4	2,980	850	424	190	1,590	477	1,660	391	3,150	190	345	119
5	7,100	515	279	233	2,260	441	2,200	331	2,300	170	291	111
6	6,160	424	233	279	2,700	515	1,870	304	1,140	161	256	111
7	3,500	360	200	279	2,100	715	1,380	291	805	170	256	119
8	2,610	317	233	256	1,590	895	1,040	304	675	170	256	127
9	1,870	331	279	222	1,200	850	1,560	317	555	161	244	144
10	1,320	477	279	211	990	635	1,590	317	360	152	233	354
11	990	424	267	200	805	391	1,200	291	317	152	222	477
12	715	304	256	190	675	345	940	291	279	161	222	375
13	555	424	279	180	595	646	1,040	267	267	161	211	304
14	477	441	304	190	715	1,090	1,090	267	267	186	161	317
15	407	441	211	170	1,040	760	940	267	256	443	144	360
16	407	515	211	258	990	555	895	304	244	345	144	360
17	441	515	233	362	850	424	850	317	222	279	144	360
18	407	477	190	222	760	407	895	649	656	233	144	360
19	345	441	180	562	715	2,980	1,200	8,400	555	200	144	345
20	375	424	170	3,250	477	14,600	1,090	6,500	360	190	144	345
21	375	391	161	3,390	375	17,400	895	4,220	586	190	144	360
22	345	391	190	5,640	345	11,400	760	2,660	2,610	329	136	345
23	345	375	200	4,340	375	7,090	635	1,940	1,110	558	136	345
24	635	391	211	2,980	555	4,400	555	1,840	595	715	136	331
25	1,450	375	267	2,180	745	2,660	555	2,520	407	555	136	291
26	1,200	928	190	1,730	1,260	1,800	391	2,020	331	360	127	279
27	850	1,140	256	1,140	990	1,320	477	1,450	291	304	127	267
28	1,300	805	222	927	715	1,090	515	1,090	244	267	119	279
29	4,380	635	211	990	-------	805	1,020	1,720	222	304	119	279
30	3,610	595	200	3,220	-------	675	1,320	2,350	211	331	127	190
31	2,880	-------	222	3,280	-------	675	-------	1,760	-------	317	136	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	7,100	345	1,710	May	8,400	267	1,460
November	1,940	304	598	June	3,150	211	734
December	555	161	259	July	715	152	269
January	5,640	170	1,220	August	485	119	202
February	2,700	345	1,100	September	477	111	268
March	17,400	345	2,510				
April	3,080	391	1,210	The year	17,400	111	963

MIAMI RIVER AT TAYLORSVILLE, OHIO

LOCATION.—Water-stage recorder at outlet works of Taylorsville Dam three-fourths mile north of Taylorsville, Montgomery County. Zero of gage is 700.00 feet above mean sea level.

DRAINAGE AREA.—1,160 square miles.

RECORDS AVAILABLE.—January, 1922, to September, 1927; January, 1914, to September, 1917, at former station at Tadmor.

EXTREMES.—Maximum discharge during year, 21,600 second-feet March 22 (gage height, 72.6 feet); minimum, 150 second-feet August 19–22 (gage height, 61.68 feet).

1922–1927: Maximum discharge, 26,700 second-feet June 9, 1924 (gage height, 72.6 feet); minimum, 48 second-feet September 7–9, 1925 (gage height, 61.6 feet).

The flood of March, 1913, reached stage of 25.4 feet at former gaging station at Tadmor, 1½ miles above this station (discharge estimated by Miami Conservancy District at 127,000 second-feet).

REMARKS.—Records good except those for estimated period January 17–25, which are fair. Flow at high stages automatically regulated at retarding basins on Miami River just above the station and on Loramie Creek at Lockington. Gage-height record and part of discharge measurement furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,370	4,520	940	496	4,370	940	3,890	2,080	2,180	495	546	174
2	4,820	3,050	871	441	3,050	804	5,960	1,380	1,780	470	520	174
3	4,220	2,160	804	468	2,650	739	4,300	1,010	1,780	445	680	174
4	4,520	1,640	772	524	3,190	739	3,220	905	4,780	420	624	174
5	7,090	1,380	739	613	4,670	675	5,200	800	7,550	420	420	174
6	10,600	1,080	583	707	5,770	707	4,020	680	2,920	395	299	178
7	6,090	1,010	524	675	3,920	804	2,730	624	1,880	395	201	178
8	4,220	871	524	644	2,780	1,080	2,080	598	1,380	395	178	186
9	3,190	871	583	583	2,050	1,150	2,730	624	1,080	395	163	201
10	2,520	871	613	524	1,640	1,010	3,220	652	975	395	156	299
11	1,840	940	613	441	1,380	838	2,500	624	770	395	156	598
12	1,460	804	583	414	1,150	675	1,980	598	680	395	156	546
13	1,300	707	583	414	1,080	804	1,880	572	652	395	156	470
14	1,150	804	583	441	1,150	1,940	2,180	572	680	395	156	445
15	1,010	804	553	363	1,840	1,550	1,880	572	624	470	160	445
16	940	804	388	338	1,640	1,150	1,680	572	572	680	156	470
17	1,080	838	441		1,380	940	1,580	598	546	624	156	495
18	1,010	804	414	1,000	1,220	871	1,480	680	680	520	156	495
19	940	739	338		1,080	2,940	2,280	6,660	1,280	445	150	495
20	871	707	388		940	10,500	2,180	10,400	870	445	150	470
21	804	675	441		739	20,100	1,680	7,690	844	445	150	470
22	772	644	496	7,000	739	19,600	1,380	4,900	5,250	445	150	470
23	739	644	441		739	14,600	1,180	3,350	3,060	546	163	470
24	948	644	468		804	8,580	1,010	3,090	1,580	770	186	470
25	2,990	675	553		1,010	4,600	940	4,860	1,080	870	167	470
26	2,650	1,010	524	3,190	2,050	3,480	905	4,020	870	680	167	445
27	1,740	1,640	468	2,400	1,460	2,500	835	2,730	740	546	167	420
28	1,460	1,460	553	1,940	1,010	2,080	1,090	2,080	652	495	171	445
29	5,320	1,150	524	1,640	-------	1,680	1,090	2,180	572	495	174	445
30	8,330	1,010	468	5,770	-------	1,280	2,610	3,480	520	546	178	445
31	6,760	-------	496	6,420	-------	1,180	-------	3,220	-------	572	178	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	10,600	739	3,090	2.66	3.07
November	4,520	644	1,170	1.01	1.13
December	940	338	557	.480	.55
January	-------	338	2,400	2.07	2.39
February	5,770	739	1,980	1.71	1.78
March	20,100	675	3,570	3.08	3.55
April	5,960	835	2,320	2.00	2.23
May	10,400	572	2,350	2.03	2.34
June	7,550	520	1,630	1.41	1.57
July	870	395	497	428	.49
August	680	150	232	.200	.23
September	598	174	380	.328	.37
The year	20,100	150	1,680	1.45	19.70

MIAMI RIVER AT DAYTON, OHIO

LOCATION.—Water-stage recorder at Main Street Bridge at Dayton, Montgomery County. Zero of gage is 721.00 feet above mean sea level. After April 1, 1927, staff gage was used.

DRAINAGE AREA.—2,510 square miles.

RECORDS AVAILABLE.—March, 1905, to December, 1909, and April, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 43,700 second-feet March 22 (gage height, 12.8 feet); minimum, 415 second-feet September 4, 5, and 9 (gage height, 0.80 foot).

1913–1927: Maximum discharge, at Millers Ford 3½ miles below gage, estimated by Miami Conservancy District at 59,800 second-feet April 21, 1920 (gage height, 16.0 feet, old datum); minimum, 122 second-feet September 5 and 8, 1925.

Maximum stage known, from high-water marks, 29.0 feet March 26, 1913 (discharge estimated by Miami Conservancy District at 250,000 second-feet).

REMARKS.—Records good. Miami & Erie Canal diverts water around gage; amount of water diverted not included in tables of discharge. See miscellaneous measurements of canal (p. 211). Flood flow automatically regulated at four retarding basins above station. Gage-height record furnished by United States Weather Bureau and Miami Conservancy District. Part of discharge measurements made by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,050	10,800	2,240	1,610	10,800	2,510	5,290	4,360	3,550	1,100	895	485
2	8,830	6,830	2,110	1,590	7,070	2,240	12,200	2,940	2,650	1,100	845	450
3	9,100	4,900	1,980	1,220	6,370	2,110	10,800	2,370	4,190	1,610	1,050	450
4	8,830	4,190	1,850	1,270	7,550	1,850	10,200	2,110	3,710	1,590	945	415
5	11,900	3,390	1,850	1,610	8,570	1,850	9,640	2,110	19,300	945	795	415
6	19,700	2,940	1,730	1,850	12,200	1,850	11,500	1,850	8,570	795	745	450
7	12,200	2,940	1,610	1,850	9,920	1,850	7,310	1,610	4,360	845	745	450
8	7,310	2,370	1,380	1,730	6,370	2,510	4,530	1,610	3,240	845	650	450
9	5,710	2,240	1,610	1,610	4,900	2,650	4,530	1,610	2,790	795	565	415
10	4,710	2,370	1,730	1,590	4,030	2,510	7,550	1,850	2,370	745	650	650
11	3,870	2,370	1,730	1,220	3,710	2,110	6,150	1,610	2,110	745	650	845
12	3,390	2,240	1,610	1,100	3,240	1,850	4,360	1,590	1,850	698	565	945
13	3,090	1,980	1,610	1,100	2,940	2,370	3,710	1,380	1,610	698	565	845
14	2,510	1,850	1,590	1,380	2,940	4,740	4,360	1,380	1,730	608	565	795
15	2,370	1,850	1,380	1,100	4,710	4,360	3,870	1,380	1,610	795	565	745
16	2,110	1,980	1,380	1,160	4,360	3,550	3,550	1,590	1,590	1,160	485	745
17	2,650	2,110	1,380	1,050	3,550	2,650	3,550	1,380	1,380	1,270	485	745
18	2,370	2,110	1,380	1,220	3,240	2,510	2,940	1,610	1,380	1,160	485	745
19	2,110	1,850	1,270	6,300	2,940	6,300	3,240	11,200	3,390	895	485	650
20	1,980	1,850	1,160	16,500	2,790	20,600	3,240	18,800	2,650	795	485	650
21	1,850	1,730	1,160	17,000	2,370	37,700	3,710	14,500	1,980	745	650	650
22	1,850	1,610	1,610	19,700	2,370	39,900	3,390	9,100	8,310	845	485	565
23	1,610	1,610	1,610	20,000	2,110	27,800	2,940	5,290	6,600	895	485	565
24	2,110	1,610	1,590	12,200	2,370	19,700	2,790	4,530	3,390	1,380	650	565
25	6,630	1,610	1,730	8,830	2,370	12,900	2,370	5,930	2,510	1,380	608	565
26	5,930	2,370	1,730	6,600	3,870	9,640	2,240	7,310	2,370	1,160	525	565
27	4,190	3,390	1,590	4,360	4,190	5,710	2,370	5,290	1,730	845	485	565
28	3,240	3,390	1,610	4,190	3,240	4,190	2,650	3,710	1,610	745	485	565
29	9,300	2,650	1,610	3,870	-------	3,710	2,510	3,550	1,380	795	450	565
30	18,300	2,370	1,590	10,800	-------	3,090	4,530	4,530	1,220	845	450	608
31	16,500	-------	1,380	14,100	-------	2,650	-------	5,710	-------	1,270	485	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	19,700	1,610	6,270	May	18,800	1,380	4,320
November	10,800	1,610	2,850	June	19,300	1,220	3,500
December	2,240	1,160	1,610	July	1,610	608	971
January	20,000	1,050	5,470	August	1,050	450	612
February	12,200	2,110	4,820	September	945	415	604
March	39,900	1,850	7,740				
April	12,200	2,240	5,070	The year	39,900	415	3,650

MIAMI RIVER NEAR MIAMISBURG, OHIO

LOCATION.—Water-stage recorder at Cleveland, Cincinnati, Chicago & St. Louis Railway bridge, 1½ miles south of Miamisburg, Montgomery County.

DRAINAGE AREA.—2,720 square miles.

RECORDS AVAILABLE.—August, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 43,000 second-feet March 22 (gage height, 14.9 feet); minimum, 550 second-feet August 9 (gage height, 0.88 foot).

1924–1927: Maximum discharge, that of March 22, 1927; minimum, 116 second-feet September 7, 1925 (gage height, 0.39 foot).

REMARKS.—Records excellent except those for June 29 to July 14, when recorder was not operating properly, which are fair. Flow at high stages automatically regulated at four retarding basins of the Miami Conservancy District above this station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,720	13,600	2,490	1,480	12,000	2,770	7,530	4,700	3,860		1,150	780
2	9,840	8,120	2,350	1,370	8,120	2,490	13,900	3,400	3,260		1,050	740
3	10,900	5,620	2,080	1,370	7,230	2,350	12,000	2,720	3,700	1,600	1,200	700
4	9,580	4,520	2,080	1,590	8,120	2,210	8,590	2,590	7,260		1,350	700
5	14,200	4,010	2,080	2,080	10,900	2,080	13,800	2,350	19,200		1,200	660
6	21,300	3,370	1,950	2,350	14,200	2,080	13,500	2,230	9,530		1,050	660
7	16,600	3,070	1,710	2,210	10,400	2,210	8,120	1,990	4,880		960	740
8	8,830	2,770	1,710	1,950	6,810	2,630	5,620	1,880	3,550		1,100	780
9	6,600	2,630	1,950	1,830	5,240	2,920	6,680	1,880	2,980		870	740
10	5,240	2,770	2,080	1,590	4,520	2,630	8,350	1,990	2,720	1,100	915	1,000
11	4,350	2,630	1,950	1,480	3,850	2,350	6,810	1,880	2,350		1,000	1,050
12	3,690	2,490	1,950	1,370	3,530	2,080	5,060	1,880	2,110		870	1,100
13	3,220	2,210	1,950	1,480	3,220	2,350	4,520	1,880	1,990		870	1,050
14	2,920	2,210	1,950	1,590	3,530	4,700	4,880	1,880	2,350		870	1,000
15	2,630	2,210	1,830	1,260	4,880	4,880	4,700	1,880	1,990	1,250	870	915
16	2,630	2,350	1,480	1,260	4,520	3,530	4,180	1,880	1,880	1,660	780	960
17	2,920	2,350	1,480	1,260	3,850	2,920	3,860	1,880	1,880	1,550	740	960
18	2,770	2,350	1,370	1,480	3,530	3,070	3,860	1,990	2,230	1,450	740	915
19	2,630	2,210	1,370	11,400	3,070	8,370	4,880	9,860	3,550	1,200	740	915
20	2,350	2,080	1,370	19,800	2,770	22,800	5,620	20,000	2,980	1,100	780	870
21	2,210	1,950	1,370	19,600	2,490	37,600	4,350	16,300	3,310	1,050	780	870
22	2,080	1,830	1,950	25,700	2,490	41,500	3,700	9,840	8,350	1,100	740	915
23	1,950	1,830	1,950	24,300	2,630	32,900	3,260	6,000	7,230	1,200	740	915
24	2,490	1,830	1,830	14,200	2,630	24,900	2,980	5,240	3,860	1,350	870	870
25	6,810	1,950	2,080	9,840	2,920	15,900	2,590	6,400	2,850	1,550	870	870
26	7,020	2,920	1,950	7,450	4,520	11,200	2,470	8,120	2,470	1,350	780	870
27	4,880	3,850	1,710	5,060	3,850	6,810	2,470	5,810	2,230	1,150	780	825
28	3,690	3,850	1,710	4,520	3,220	4,880	2,720	4,180	1,990	1,100	740	825
29	8,080	3,070	1,710	4,880		4,180	3,120	3,550	1,800	1,100	740	870
30	20,700	2,630	1,480	12,700		3,700	4,700	4,520		1,150	780	960
31	19,600		1,480	15,900		3,400		5,810		1,350	780	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	21,300	1,950	7,140	2.62	3.02
November	13,600	1,830	3,310	1.22	1.36
December	2,490	1,370	1,820	.669	.77
January	25,700	1,260	6,590	2.42	2.79
February	14,200	2,490	5,320	1.96	2.04
March	41,500	2,080	8,660	3.18	3.67
April	13,900	2,470	5,960	2.19	2.44
May	20,000	1,880	4,730	1.74	2.01
June	19,200		4,000	1.47	1.64
July			1,280	.471	.54
August	1,350	740	894	.329	.38
September	1,100	660	868	.319	.36
The year	41,500	660	4,210	1.55	21.02

MIAMI RIVER AT HAMILTON, OHIO

LOCATION.—Water-stage recorder in NE. ¼ sec. 6, T. 1 N., R. 3 E., 1,000 feet below Columbia Bridge at Hamilton. Zero of gage is 500.00 feet above mean sea level.

DRAINAGE AREA.—3,640 square miles.

RECORDS AVAILABLE.—April to September, 1927. February, 1910, to September, 1917, at site seven-tenths mile upstream.

EXTREMES.—Maximum discharge during period April 12 to September 30, 1927, 18,200 second-feet May 20 (gage height, 67.9 feet); minimum, 334 second-feet September 7 (gage height, 58.12 feet).

Maximum stage known, 599.2 feet (mean sea level datum) at former gage site March 26, 1913.

REMARKS.—Records good, except for June 11 to July 19, when no gage-height record was obtained, for which they are fair. The Miami & Erie Canal diverts water from basin above station; diversion not included in tables of discharge. Miscellaneous measurements are made of flow in canal at Lindenwald near point where canal leaves basin (see p. 211). The flow in river at low stages is regulated for power at Hamilton. Flow at high stages is automatically regulated by five retarding basins above station. Gage-height record and part of discharge measurements furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1927

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1		5,920	5,100		1,280	635	16	5,260	2,190			762	829
2		4,620	3,990		1,150	620	17	4,780	2,160			701	829
3		3,840	3,700	1,600	1,160	608	18	5,260	2,910	3,600	1,400	690	772
4		3,700	4,950		1,160	608	19	7,360	10,500			752	799
5		3,280	15,400		1,180	552	20	7,180	16,800		1,230	653	792
6		3,000	12,200		1,070	536	21	6,100	15,800	3,800	1,130	746	763
7		2,680	6,100		972	532	22	4,940	11,000	9,500	1,170	700	741
8		2,630	4,460	1,300	1,300	711	23	4,460	7,360	9,020	1,160	720	740
9		2,510	3,700		1,120	662	24	3,990	6,100	6,000	1,140	647	728
10		2,740	3,280		801	1,180	25	3,700	8,340	6,000	1,280	766	671
11		2,600			876	4,430	26	3,420	8,940		1,370	720	711
12	6,640	2,400			828	1,360	27	3,420	7,360		1,230	664	674
13	5,920	2,380	3,100	1,100	756	1,090	28	3,280	5,580	2,700	1,120	628	726
14	5,740	2,400			762	1,000	29	3,990	4,460		1,080	608	801
15	5,740	2,370			780	910	30	5,420	4,780		1,150	646	860
							31		5,580		1,690	670	

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
April 12–30	7,360	3,280	5,080	July			1,300
May	16,800	2,160	5,380	August	1,300	608	847
June	15,400		4,810	September	4,430	532	896

MIAMI RIVER AT VENICE, OHIO

LOCATION.—Chain gage on highway bridge in Hamilton County three-fourths mile southeast of Venice, Butler County. Zero of gage 520.22 feet above mean sea level.

DRAINAGE AREA.—3,790 square miles (revised).

RECORDS AVAILABLE.—June, 1915, to September, 1927, discontinued.

EXTREMES.—Maximum discharge during year, 43,600 second-feet March 21 (gage height, 20.3 feet); minimum, 585 second-feet August 21 (gage height, 1.67 feet).

1915–1927: Maximum discharge, 55,600 second-feet April 22, 1920 (gage height, 24.2 feet); minimum, 225 second-feet September 8, 1925 (gage height, 1.22 feet).

Highest known stage, 38.0 feet March 26, 1913 (discharge estimated at 370,000 second-feet).

REMARKS.—Records good. Miami & Erie Canal diverts water from this drainage basin above station. Miscellaneous discharge measurements are made of flow in canal at Lindenwald where it leaves the basin. Amount of water diverted not included in tables of discharge. Flow at low stages regulated for power at Hamilton. Flow at high stages is automatically regulated at five retarding basins of Miami Conservancy District above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,790	18,100	4,390	1,910	14,000	5,550	13,000	6,720	6,030	2,220	1,560	788
2	14,500	11,800	3,610	2,310	11,600	5,210	16,000	5,190	4,710	1,990	1,560	788
3	14,000	9,600	3,310	2,590	9,790	4,870	15,000	4,390	4,080	1,880	1,460	788
4	10,800	7,700	2,870	3,910	11,200	4,230	13,500	4,080	5,690	1,770	1,560	750
5	26,600	6,430	2,870	4,710	16,500	3,460	28,400	3,630	17,600	1,660	1,460	715
6	24,600	5,040	2,870	4,230	16,300	3,010	20,200	3,210	13,700	1,560	1,260	715
7	19,100	4,390	2,870	3,610	15,200	3,010	12,100	3,210	7,620	1,560	1,170	865
8	12,100	3,910	2,870	3,310	11,400	3,460	8,700	3,080	5,520	1,560	1,560	1,080
9	9,030	4,230	3,010	3,010	8,270	3,760	9,620	3,080	4,390	1,460	1,560	990
10	7,510	4,070	3,010	2,870	7,150	3,760	11,600	3,210	3,780	1,360	1,170	1,040
11	6,250	3,610	3,010	2,590	6,610	3,310	10,000	3,210	3,490	1,360	1,170	5,690
12	5,210	3,460	2,870	2,310	5,720	3,160	8,340	2,950	2,950	1,360	1,040	1,660
13	4,870	3,160	3,010	2,310	5,380	3,760	7,080	2,950	2,820	1,260	905	1,560
14	3,910	3,160	2,870	2,870	5,720	6,610	6,900	2,950	6,030	1,360	948	1,460
15	3,760	3,310	2,730	1,780	6,070	7,700	6,900	2,950	3,210	1,460	1,080	1,260
16	3,610	3,760	2,450	1,540	6,790	5,890	6,200	2,700	2,820	1,660	990	1,040
17	6,070	3,610	2,170	1,420	6,070	4,710	5,690	2,700	2,580	1,880	948	1,040
18	4,390	3,460	1,910	1,910	6,430	5,210	6,540	3,780	3,490	1,880	905	1,040
19	4,230	3,010	1,780	22,000	5,210	13,700	9,060	14,700	7,260	1,660	905	1,120
20	4,070	3,010	1,910	26,300	4,390	26,000	8,520	18,900	5,350	1,460	905	1,120
21	3,910	2,870	2,040	26,900	4,070	43,000	7,080	17,300	4,550	1,360	680	1,080
22	3,610	2,730	3,610	37,100	3,910	42,300	6,200	11,800	11,400	1,460	865	990
23	3,310	2,590	3,610	31,000	4,390	37,100	5,190	8,520	10,400	1,460	788	948
24	3,160	2,450	3,310	19,900	4,230	28,000	4,550	7,260	6,720	1,460	905	905
25	10,800	2,730	3,460	14,500	4,230	19,400	4,080	10,000	5,350	1,660	825	905
26	9,410	5,550	4,230	10,400	4,710	14,500	3,210	11,000	5,030	1,770	788	990
27	7,890	6,250	3,160	8,840	6,250	10,400	3,210	8,520	3,490	1,560	788	948
28	5,720	5,720	2,870	7,700	5,890	7,980	3,350	7,080	2,820	1,360	788	905
29	9,030	5,720	2,450	7,890	-------	6,900	4,550	5,690	2,580	1,360	750	905
30	22,900	5,210	1,910	13,500	-------	6,030	6,030	6,030	2,340	1,560	788	1,080
31	26,300	-------	1,660	19,100	-------	5,690	-------	6,720	-------	1,880	788	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	26,600	3,160	9,690	May	18,900	2,700	6,370
November	18,100	2,450	5,020	June	17,600	2,340	5,590
December	4,390	1,660	2,860	July	2,220	1,260	1,590
January	37,100	1,420	9,490	August	1,560	680	1,060
February	16,500	3,910	7,770	September	5,690	715	1,170
March	43,000	3,010	11,000				
April	28,400	3,210	9,030	The year	43,000	715	5,880

LORAMIE CREEK AT LOCKINGTON, OHIO

LOCATION.—Water-stage recorder in NE. ¼ sec. 30, T. 7 N., R. 6 E., just below Lockington Dam half a mile northwest of Lockington. Gage datum changed on October 1, 1926, from 874.99 to 800.00 feet above mean sea level.

DRAINAGE AREA.—261 square miles.

RECORDS AVAILABLE.—October, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,870 second-feet March 21 (gage height, 83.9 feet); minimum, 8.6 second-feet September 6 (gage height, 75.88 feet).

1915–1927: Maximum discharge, 9,900 second-feet May 7, 1916 (gage height, 10.4 feet, original datum); minimum, 5 second-feet November 18, 1915, September 1, 9–12, 16–20, 26–27, and October 2–19, 1924.

Maximum stage known, 15.6 feet, original datum, March 25, 1913 (discharge estimated by Miami Conservancy District at 25,600 second-feet).

REMARKS.—Records good. Discharge estimated January 11–18 because of ice effect and January 27–30 and August 3–15 because gage-height records are missing. Small amount of regulation at gage due to storage in Loramie Reservoir. At high stages the flow is automatically regulated by the Loramie retarding basin. Gage-height record and part of discharge measurements furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	980	470	64	37	920	142	1,510	354	280	24	20	10
2	920	314	53	36	700	116	1,300	232	232	23	14	10
3	860	240	46	38	750	97	605	180	289	22	14	9.4
4	605	205	45	39	805	93	390	152	1,390	22	14	9.4
5	1,380	183	41	55	1,650	79	936	102	700	22	13	9.4
6	805	152	37	76	1,370	99	605	71	290	21	13	8.8
7	605	133	36	104	750	183	354	66	161	20	13	10
8	470	124	40	59	515	281	293	61	118	19	13	14
9	390	124	58	52	390	205	752	61	102	18	12	14
10	298	107	59	47	281	172	700	64	92	18	12	16
11	216	88	56		216	142	450	58	86	17	12	16
12	183	76	56		172	124	322	54	82	16	12	15
13	152	70	71		152	458	442	52	77	15	12	14
14	124	62	78		416	605	390	54	76	16	11	13
15	116	46	52	30	470	314	255	54	72	25	11	13
16	99	47	48		298	228	232	55	71	23	11	20
17	116	47	36		240	183	210	52	69	19	11	41
18	94	43	32		216	216	418	210	76	16	12	40
19	78	38	31	432	172	1,890	560	3,960	81	15	12	28
20	68	37	30	1,480	124	4,510	354	2,870	71	14	12	17
21	64	35	34	1,800	105	5,870	243	1,910	85	13	12	15
22	59	33	36	2,090	105	5,570	200	860	244	24	12	12
23	54	31	36	1,440	104	4,090	170	650	102	47	11	12
24	272	30	37	920	105	920	143	700	88	40	12	14
25	650	36	45	700	297	650	126	1,440	80	33	12	14
26	314	110	47	538	492	560	110	920	69	22	11	12
27	216	142	40		253	450	250	492	41	17	10	11
28	245	85	39		162	308	218	322	32	16	10	11
29	1,340	79	40	700		221	597	379	28	16	9.0	12
30	805	71	36			180	700	818	26	22	10	11
31	805		36	1,590		161		362		27	10	

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	1,380	54	432	May	3,960	52	568
November	470	30	109	June	1,390	26	174
December	78	30	45.0	July	47	13	21.4
January	2,090		470	August	20	9.0	12.0
February	1,650	104	437	September	41	8.8	15.1
March	5,870	79	939				
April	1,510	110	461	The year	5,870	8.8	307

STILLWATER RIVER AT ENGLEWOOD, OHIO

LOCATION.—Water-stage recorder in NW. ¼ sec. 23, T. 5 N., P. 5 E., 1,000 feet below Englewood Dam and half a mile southeast of Englewood. Zero of gage is 700.00 feet above mean sea level.

DRAINAGE AREA.—646 square miles.

RECORDS AVAILABLE.—November, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,580 second-feet March 22 (gage height, 79.4 feet); minimum, 38 second-feet September 27 (gage height, 70.38 feet).

1925–1927: Maximum discharge, that of March 22, 1927; minimum, 25 second-feet July 27, 1926 (gage height, 70.20 feet).

The peak discharge during flood of March, 1913, was estimated by Miami Conservancy District at 85,400 second-feet.

REMARKS.—Records excellent. Flow automatically retarded at high stages at Englewood retarding basin. Gage-height record and part of discharge measurements furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,390	4,170	484	282	4,320	433	2,020	834	491	334	142	81
2	2,680	2,350	426	278	2,270	394	3,890	576	406	323	132	90
3	2,930	1,350	392	270	1,700	386	3,000	490	832	310	140	81
4	2,700	990	382	276	2,020	376	1,920	462	2,380	282	130	74
5	3,000	810	362	366	2,660	349	3,020	432	3,750	222	112	69
6	3,750	686	332	539	4,030	341	3,360	382	1,830	226	100	66
7	2,300	616	298	562	2,880	360	1,970	366	917	222	97	64
8	1,300	552	304	506	1,630	423	1,120	345	698	214	103	90
9	948	514	322	431	1,100	498	1,280	348	536	186	100	81
10	760	502	370	382	888	444	2,250	358	454	164	107	80
11	654	484	382	322	764	389	1,750	344	399	168	88	84
12	575	432	382	295	672	372	1,090	338	382	162	70	110
13	509	390	374	276	586	476	874	310	366	152	85	160
14	468	384	386	302	662	1,660	1,090	294	374	147	84	114
15	420	376	378	285	1,400	1,270	1,020	294	344	174	78	96
16	404	378	306	234	1,100	829	826	286	335	186	79	88
17	532	378	257	230	854	664	766	274	292	172	67	84
18	596	358	252	270	698	592	714	280	474	156	82	84
19	498	336	266	638	600	1,670	1,360	2,480	1,160	146	79	69
20	432	330	210	2,360	512	5,100	1,710	4,620	850	146	80	66
21	392	318	256	3,490	474	8,040	1,040	3,620	814	153	68	62
22	372	294	298	4,320	438	8,580	784	1,640	2,880	179	72	59
23	329	291	317	4,940	426	8,220	653	914	1,640	149	80	54
24	399	284	330	4,170	432	7,140	564	802	909	146	108	54
25	1,730	276	366	2,550	430	5,780	506	1,330	618	134	95	54
26	1,660	322	377	1,620	796	3,490	452	1,580	509	138	113	60
27	972	644	334	948	746	1,130	464	1,000	514	126	96	48
28	715	806	360	856	536	777	514	672	467	114	82	56
29	2,420	620	334	984	-------	666	510	578	414	106	84	82
30	4,940	527	284	3,620	-------	598	1,030	582	362	122	84	80
31	5,100	-------	242	5,270	-------	545	-------	732	-------	100	88	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,100	329	1,510	2.34	2.70
November	4,170	276	692	1.07	1.19
December	484	210	334	.517	.60
January	5,270	230	1,350	2.09	2.41
February	4,320	426	1,270	1.97	2.05
March	8,580	341	2,000	3.10	3.57
April	3,890	452	1,380	2.14	2.39
May	4,620	274	889	1.38	1.59
June	3,750	292	880	1.36	1.52
July	334	100	179	.277	.32
August	142	67	94.4	.146	.17
September	160	48	78.0	.121	.14
The year	8,580	48	887	1.37	18.65

GREENVILLE CREEK NEAR GREENVILLE, OHIO

LOCATION.—Chain gage on highway bridge on west line of sec. 31, T. 10 N., R. 3 E., 1½ miles east of Greenville.

DRAINAGE AREA.—141 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927. Prior to April, 1925, at site half a mile downstream.

EXTREMES.—Maximum discharge during year, 3,630 second-feet March 21 (gage height, 9.5 feet); minimum, 18 second-feet September 3 and 7 (gage height, 1.52 feet).

1923–1927: Maximum discharge, 4,200 second-feet June 9, 1924; minimum, 10 second-feet September 9, 1925.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	840	735	177	72	1,030	133	433	225	109	61	36	26
2	875	635	168	73	735	150	1,220	168	92	57	23	21
3	1,170	487	159	101	605	117	840	150	289	53	27	18
4	1,170	382	150	150	545	109	545	168	382	47	29	20
5	1,220	335	150	159	460	101	515	133	605	49	26	22
6	1,220	312	142	168	407	117	770	117	358	34	22	21
7	1,170	246	133	150	407	142	460	133	225	35	20	18
8	1,120	205	125	150	382	159	312	133	159	46	31	27
9	1,120	159	117	159	382	150	382	125	117	44	24	21
10	1,070	186	117	142	382	133	950	142	109	39	26	20
11	1,070	168	109	125	382	117	545	150	89	41	22	289
12	1,070	168	101	117	358	117	335	125	81	39	23	117
13	1,070	150	95	101	358	236	289	117	73	27	20	51
14	1,030	142	89	95	335	545	382	109	78	36	23	39
15	1,030	133	81	83	335	358	312	117	66	34	27	34
16	1,030	117	76	78	335	267	267	125	63	32	20	29
17	990	109	71	78	267	205	289	109	59	29	22	23
18	990	109	68	78	246	205	225	101	73	39	23	20
19	910	101	63	86	205	312	665	840	246	31	20	23
20	910	98	61	700	177	1,990	575	1,600	196	29	21	21
21	875	95	59	805	150	3,630	335	840	133	27	22	22
22	735	92	150	840	133	2,130	289	433	256	46	23	23
23	575	88	101	875	133	1,070	225	289	168	29	20	20
24	487	83	98	805	125	665	205	236	117	24	63	23
25	407	81	92	735	168	460	186	407	95	32	41	19
26	289	225	89	605	225	358	168	289	186	31	31	23
27	267	267	86	246	177	289	186	205	133	29	26	22
28	267	196	83	312	133	246	168	168	92	24	24	21
29	605	186	81	382	-------	215	150	150	76	28	23	31
30	990	177	76	1,030	-------	196	382	133	66	83	44	35
31	875	-------	76	1,720	-------	186	-------	117	-------	49	32	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,220	267	885	6.28	7.24
November	735	81	216	1.53	1.71
December	177	59	105	.745	.86
January	1,720	72	362	2.57	2.96
February	1,030	125	342	2.43	2.53
March	3,630	101	487	3.45	3.98
April	1,220	150	420	2.98	3.32
May	1,600	101	263	1.87	2.16
June	605	59	160	1.13	1.26
July	83	24	38.8	.275	.32
August	63	20	26.9	.191	.22
September	289	18	36.6	.260	.29
The year	3,630	18	279	1.98	26.85

MAD RIVER NEAR URBANA, OHIO

LOCATION.—Chain gage on west line of sec. 35, T. 5 E., R. 11 N., at highway bridge half a mile above Pennsylvania Railroad crossing and 2½ miles west of Urbana.

DRAINAGE AREA.—157 square miles.

RECORDS AVAILABLE.—September, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,320 second-feet March 21 (gage height, 5.8 feet); minimum, 72 second-feet October 7 (gage height, 1.08 feet).

1925–1927: Maximum discharge, that of March 21, 1927; minimum, 50 second-feet October 21, 1925 (gage height, 0.90 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	263	455	104	156	166	212	224	250	188	166	156	120
2	535	402	107	156	166	212	212	224	188	177	166	118
3	960	368	188	156	156	212	212	224	212	156	166	121
4	860	320	188	145	145	212	212	212	177	145	156	118
5	535	420	177	156	145	212	212	200	166	166	145	125
6	276	263	188	166	156	212	212	188	166	166	145	125
7	72	237	177	145	145	224	224	200	177	166	145	125
8	177	237	188	145	156	212	224	177	188	156	135	125
9	107	276	188	166	156	212	237	177	188	156	145	125
10	495	237	188	156	166	224	237	263	177	145	145	145
11	910	237	188	166	177	200	237	263	177	156	145	125
12	910	237	166	156	166	212	224	224	166	145	145	125
13	438	224	177	166	156	237	224	188	177	166	145	121
14	166	212	166	156	166	237	212	212	166	166	121	121
15	135	212	166	166	177	237	212	200	188	177	125	125
16	105	237	177	156	166	224	212	212	177	166	135	125
17	212	224	166	166	166	224	237	212	212	156	156	166
18	212	100	166	156	166	212	237	237	188	156	135	111
19	212	88	177	710	156	212	237	1,550	200	156	135	114
20	212	84	177	237	166	2,040	212	1,130	200	156	135	135
21	212	88	188	212	166	2,320	212	263	200	166	156	135
22	212	92	188	156	166	1,970	212	250	188	156	135	135
23	212	116	166	156	166	620	212	250	177	156	145	125
24	237	156	166	166	212	263	212	237	188	166	135	121
25	237	237	166	166	212	212	200	224	188	166	145	125
26	237	402	156	166	212	212	237	212	188	156	135	116
27	224	250	156	156	212	212	250	224	188	145	125	118
28	237	200	166	166	224	224	224	212	200	145	135	135
29	224	212	156	166	-------	212	438	212	188	156	135	438
30	212	166	156	166	-------	212	224	224	200	156	123	263
31	123	-------	156	156	-------	188	-------	188	-------	156	118	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	960	72	328	2.09	2.41
November	455	84	233	1.48	1.65
December	188	104	169	1.08	1.24
January	710	145	181	1.15	1.33
February	224	145	171	1.09	1.14
March	2,320	188	414	2.64	3.04
April	438	200	229	1.46	1.63
May	1,550	177	292	1.86	2.14
June	212	166	186	1.18	1.32
July	177	145	159	1.01	1.16
August	166	118	141	.898	1.04
September	438	111	141	.898	1.00
The year	2,320	72	221	1.41	19.10

MAD RIVER NEAR SPRINGFIELD, OHIO

LOCATION.—Water-stage recorder in NW. ¼ sec. 16, R. 9, T. 4, 150 feet below Rock Run and 3 miles west of Springfield. Zero of gage is 881.95 feet above mean sea level.

DRAINAGE AREA.—485 square miles.

RECORDS AVAILABLE.—March, 1924, to September, 1927. January, 1904, to March, 1906, and February, 1914, to February, 1924, at site 1¾ miles upstream.

EXTREMES.—Maximum discharge during year, 10,000 second-feet January 19 (gage height, 10.5 feet); minimum, 248 second-feet September 6 (gage height, 1.71 feet).

1914–1927: Maximum discharge 11,400 second-feet March 29, 1924 (gage height, 11.5 feet); minimum, 110 second-feet July 20 and 25, 1925 (gage height, 1.44 feet).

Maximum stage known, 19.2 feet (original gage datum) and 16.9 feet (present datum) March 25, 1913 (discharge at railway bridge, between gage sites, estimated by Miami Conservancy District at 55,400 second-feet).

REMARKS.—Records excellent. Discharge estimated August 28 to September 1.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	958	1,310	564	472	818	595	1,650	688	626	442	366	268
2	1,750	1,070	533	442	785	533	1,190	626	595	442	400	264
3	1,230	920	502	442	818	533	1,070	595	850	442	360	264
4	1,400	818	502	472	920	502	920	595	2,650	412	354	264
5	3,540	785	502	533	995	502	2,390	564	5,030	406	343	253
6	4,100	720	502	533	818	533	1,500	533	1,310	400	320	253
7	1,400	657	472	502	752	564	995	533	920	412	314	280
8	995	626	533	472	657	595	850	533	785	400	326	314
9	850	688	564	442	657	533	1,070	533	688	389	331	308
10	752	720	564	442	720	533	1,070	564	657	377	308	406
11	720	657	533	412	752	502	818	564	657	371	308	326
12	657	626	533	406	720	502	752	533	595	366	292	303
13	657	595	533	412	657	564	752	533	564	354	286	297
14	626	564	533	472	533	785	850	533	688	377	292	297
15	595	595	472	412	442	657	720	564	626	752	292	286
16	595	657	400	400	366	595	720	595	533	502	275	275
17	657	626	412	400	472	564	720	564	533	595	275	270
18	564	595	400	412	564	626	688	674	657	442	292	264
19	533	564	389	4,710	626	1,810	752	3,280	688	406	297	264
20	533	533	412	6,010	657	4,180	688	1,590	595	400	292	275
21	533	533	442	3,260	688	6,940	657	920	564	377	297	275
22	502	502	688	5,590	720	2,800	657	752	1,070	472	286	275
23	502	502	595	2,260	720	1,400	626	688	785	442	280	275
24	785	472	595	1,100	752	1,150	595	785	595	389	442	275
25	1,950	502	657	1,150	752	995	595	1,310	564	354	320	264
26	958	885	533	1,030	752	920	595	995	564	348	292	264
27	785	885	502	752	720	850	720	785	502	343	286	264
28	688	657	502	657	595	785	657	657	472	348	282	280
29	3,440	626	472	720	-------	752	752	920	472	406	279	308
30	3,210	595	472	752	-------	720	885	885	442	383	275	303
31	2,740	-------	472	818	-------	688	-------	720	-------	412	271	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,100	502	1,260	2.60	3.00
November	1,310	472	683	1.41	1.57
December	688	389	509	1.05	1.21
January	6,010	400	1,200	2.47	2.85
February	995	366	694	1.43	1.49
March	6,940	502	1,100	2.27	2.62
April	2,390	595	907	1.87	2.09
May	3,280	533	794	1.64	1.89
June	5,030	442	876	1.81	2.02
July	752	343	418	.862	.99
August	442	----------	311	.641	.74
September	406	253	284	.586	.65
The year	6,940	253	755	1.56	21.12

MAD RIVER NEAR DAYTON, OHIO

LOCATION.—Water-stage recorder in SW. ¼ sec. 7, R. 8, T. 2, just below Huffman Dam 6 miles northeast of Dayton. Zero of gage is 700.00 feet above mean sea level.

DRAINAGE AREA.—632 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927. November, 1914, to September, 1921, at site 1 mile upstream.

EXTREMES.—Maximum discharge during year, 9,880 second-feet January 20 (gage height, 86.6 feet); minimum, 264 second-feet September 19 (gage height, 79.63 feet).

1924–1927: Maximum discharge, that of January 20, 1927; minimum, 123 second-feet September 6–12, 1925 (gage height, 79.4 feet).

Maximum stage known, 14.0 feet (former gage datum) March 25, 1913 (discharge estimated by Miami Conservancy District at 75,700 second-feet).

REMARKS.—Records good. Discharge January 5 and 6 estimated. Flow at high stages automatically regulated at Huffman retarding basin. Gage-height record and part of discharge measurements furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,200	2,110	615	521	1,110	665	1,760	765	665	456	373	316
2	1,870	1,320	591	521	990	665	1,720	715	615	456	373	298
3	1,470	1,110	591	521	1,050	615	1,180	665	965	456	373	298
4	1,630	990	591	591	1,390	615	1,050	665	2,550	435	353	298
5	3,740	930	615	615	1,470	591	2,640	665	5,060	435	353	298
6	4,720	875	567	591	1,810	615	1,720	615	1,630	414	334	298
7	2,040	765	591	567	1,320	615	1,110	615	990	414	316	298
8	1,250	765	665	544	1,050	665	930	615	875	414	353	316
9	1,050	765	665	521	930	615	1,180	615	765	393	334	316
10	930	820	665	499	875	591	1,180	615	715	393	334	393
11	820	715	615	477	820	567	930	615	665	393	316	373
12	765	665	615	477	765	567	820	591	615	393	316	316
13	765	665	665	477	765	615	820	567	591	373	316	298
14	715	665	591	521	875	875	875	567	715	373	316	281
15	665	765	591	477	930	765	765	591	665	591	316	281
16	665	715	521	456	820	665	765	615	591	521	316	281
17	765	665	499	456	765	615	765	591	567	521	298	281
18	665	615	477	435	765	665	765	665	665	456	316	264
19	665	615	477	3,310	715	2,160	820	3,250	715	414	316	264
20	615	591	499	9,500	665	4,650	765	2,030	615	393	316	264
21	615	567	591	5,060	665	7,900	715	1,050	567	393	316	264
22	567	567	765	5,420	615	5,760	715	820	930	393	298	281
23	567	567	615	4,890	715	1,810	665	765	820	435	298	264
24	662	591	765	1,810	820	1,390	665	820	615	393	456	264
25	2,240	930	715	1,390	765	1,110	665	1,250	567	373	373	264
26	1,320	1,050	615	1,250	990	1,050	615	990	567	353	334	264
27	990	820	567	930	820	930	715	820	544	353	316	264
28	820	715	567	875	715	875	715	715	499	353	316	281
29	2,060	715	544	1,110	-------	820	715	875	477	373	316	298
30	3,910	665	544	2,110	-------	765	990	930	477	373	334	298
31	3,910	-------	544	1,630	-------	765	-------	765	-------	393	334	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,720	567	1,440	2.28	2.63
November	2,110	567	810	1.28	1.43
December	765	477	598	.946	1.09
January	9,500	435	1,570	2.48	2.86
February	1,810	615	928	1.47	1.53
March	7,900	567	1,340	2.12	2.44
April	2,640	615	991	1.57	1.75
May	3,250	567	853	1.35	1.56
June	5,060	477	910	1.44	1.61
July	591	353	415	.657	.76
August	456	298	333	.527	.61
September	393	264	292	.462	.52
The year	9,500	264	874	1.38	18.79

BUCK CREEK AT SPRINGFIELD, OHIO

LOCATION.—Staff gage at power plant of Ohio Edison Co., 300 feet below Fountain Avenue Bridge in Springfield, Clark County.

DRAINAGE AREA.—130 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927. July, 1914, to September, 1921, at Plum Street Bridge half a mile below present gage.

EXTREMES.—Maximum discharge during year, 5,570 second-feet January 19 (gage height, 10.2 feet); minimum, 59 second-feet September 24 (gage height, 2.46 feet).

1924–1927: Maximum discharge, about 10,500 second-feet June 8, 1924 (gage height, 14.2 feet); minimum, 13 second-feet July 10, 1925 (gage height, 2.30 feet).

Maximum stage known, 12.3 feet at Plum Street gage March 25, 1913 (discharge estimated by Miami Conservancy District at 11,100 second-feet).

REMARKS.—Records good. Gage-height record furnished by Ohio Edison Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	179	275	130	115	179	130	470	157	135	116	100	77
2	445	240	128	103	179	113	319	154	217	93	96	74
3	240	179	122	113	345	126	202	146	250	106	98	76
4	224	194	113	124	275	109	202	172	805	102	96	68
5	880	179	166	142	345	111	550	152	450	102	96	66
6	365	166	130	142	328	130	267	152	250	9?	81	66
7	224	142	128	122	240	130	202	141	202	9?	85	77
8	179	124	153	111	179	142	172	157	157	8?	102	74
9	153	153	153	111	179	126	234	149	149	8?	85	104
10	142	142	153	105	166	120	202	157	146	9?	83	96
11	142	153	153	105	153	122	157	141	152	9?	83	81
12	142	142	153	100	142	122	172	144	141	87	81	77
13	130	130	166	111	153	142	186	133	123	8?	81	79
14	124	130	153	124	194	153	186	138	217	83	89	77
15	122	130	117	101	179	130	186	141	154	125	81	74
16	130	153	103	98	166	126	186	154	141	111	77	68
17	142	142	107	101	153	103	186	138	130	102	81	66
18	122	142	100	130	153	166	186	172	186	102	83	66
19	117	130	103	3,160	142	880	202	1,000	157	101	85	70
20	120	124	113	1,100	128	1,350	172	284	141	118	85	68
21	103	122	122	930	128	1,420	172	217	141	96	83	68
22	107	113	240	1,490	128	470	172	172	186	157	79	72
23	115	109	153	445	194	337	172	186	152	116	374	74
24	208	117	179	310	194	267	154	217	128	96	130	63
25	640	142	166	258	224	250	152	319	123	85	87	66
26	258	292	142	153	224	234	144	217	172	85	77	66
27	194	208	128	86	153	217	186	172	130	83	77	70
28	166	153	130	79	142	202	157	152	113	118	74	79
29	445	142	126	345	------	186	217	267	111	116	77	81
30	550	142	115	445	------	186	234	202	111	108	118	79
31	640	------	115	208	------	186	------	157	------	108	81	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	880	103	250	1.92	2.21
November	292	109	157	1.21	1.35
December	240	100	137	1.05	1.21
January	3,160	79	357	2.75	3,17
February	345	128	192	1.48	1.54
March	1,420	103	274	2.11	2.43
April	550	144	213	1.64	1.83
May	1,000	133	202	1.55	1.79
June	805	111	189	1.45	1.62
July	157	81	102	.785	.90
August	374	74	96.9	.745	.86
September	104	63	74.1	.570	.64
The year	3,160	63	187	1.44	19.55

TWIN CREEK NEAR GERMANTOWN, OHIO

LOCATION.—Water-stage recorder in NW. ¼ sec. 11, T. 3 N., R. 4 E., a quarter of a mile below Germantown Dam and 1½ miles northwest of Germantown. Zero of gage is 700.00 feet above mean sea level.

DRAINAGE AREA.—275 square miles.

RECORDS AVAILABLE.—December, 1926, to September, 1927. April, 1914, to December, 1923, at site 1 mile downstream.

EXTREMES.—Maximum discharge during period, 5,400 second-feet April 5 (gage height, 26.2 feet); minimum, 18 second-feet September 7 (gage height, 18.41 feet).

1914–1923, 1927: Maximum discharge, 8,480 second-feet April 21, 1920; minimum, 9 second-feet October 24, 1921.

Maximum stage known, 18.3 feet (original gage datum) March 25, 1913 (discharge estimated by Miami Conservancy District at 66,000 second-feet).

REMARKS.—Records good. Discharge estimated January 11–17. Flow at high stages automatically regulated at Germantown retarding basin. Gage-height record and part of discharge measurements furnished by Miami Conservancy District.

Daily and monthly discharge, in second-feet, 1926–27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		162	895	200	2,620	414	115	97	39	24
2		162	740	162	1,360	322	99	88	33	22
3		162	1,010	174	1,070	274	101	80	33	22
4		243	1,070	150	1,070	258	511	70	31	21
5		456	2,460	139	4,220	214	1,260	65	28	20
6		544	1,330	150	2,150	187	568	61	27	19
7		374	840	150	895	162	338	59	26	33
8		290	690	162	690	174	228	55	52	38
9		243	568	162	1,570	162	150	52	32	28
10		200	499	150	1,130	243	119	47	27	291
11			435	135	740	200	107	58	26	645
12			394	150	592	150	92	45	24	174
13			374	356	5.4	139	82	41	24	77
14			456	640	568	130	182	39	24	48
15		150	478	435	478	126	124	56	24	38
16			478	356	456	115	85	115	24	33
17			394	305	414	105	74	107	24	29
18	162	318	394	450	546	224	557	74	25	27
19	162	3,800	290	2,620	1,070	2,240	1,780	58	27	26
20	150	3,940	274	3,850	690	950	740	45	39	24
21	150	2,620	258	5,070	522	568	471	40	51	24
22	456	4,520	258	2,140	414	394	3,080	51	30	23
23	394	1,970	305	1,010	356	305	950	94	26	22
24	356	1,190	322	790	322	373	522	51	26	22
25	394	1,070	290	640	290	640	374	42	24	22
26	290	895	338	568	258	435	435	36	24	22
27	243	568	258	478	243	290	274	33	24	21
28	214	568	228	414	228	228	187	94	23	22
29	200	882		394	434	187	139	53	22	37
30	187	2,920		356	690	162	113	83	23	42
31	238	1,460		338		139		144	24	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
December 18–31	394	150	257	0.935	0.49
January	4,520		984	3.58	4.13
February	2,460	228	583	2.12	2.21
March	5,070	135	745	2.71	3.12
April	4,220	228	888	3.23	3.60
May	2,240	105	339	1.23	1.42
June	3,080	74	462	1.68	1.87
July	144	33	65.7	.239	.28
August	52	22	28.6	.104	.12
September	645	19	63.2	.230	.26

KENTUCKY RIVER BASIN

KENTUCKY RIVER AT LOCK 14, AT HEIDELBERG, KY.

LOCATION.—Staff gage at Lock 14 at Heidelberg, Lee County, and one-fourth mile above mouth of Sturgeon Creek. Zero of gage is 631.00 feet and crest of dam is 639.6 feet above mean sea level.

DRAINAGE AREA.—2,610 square miles.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 59,000 second-feet December 23 (gage height, 29.8 feet); minimum, about 125 second-feet September 28–30 (gage height, 8.8 feet).

1925–1927: Maximum discharge, that of December 23, 1926; minimum, about 14 second-feet October 1, 1925 (gage height, 7.7 feet).

REMARKS.—Records good except those for ordinary low water and extremely high water, which are fair, and those for extremely low water, which are poor. Slight regulation due to operation of lock negligible. Gage-height record furnished by United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,960	8,600	8,270	8,980	20,100	4,530	13,600	2,430	39,100	540	1,390	400
2	2,900	6,350	6,660	6,660	14,700	3,960	12,300	2,540	18,700	445	690	445
3	2,110	3,960	4,820	4,530	7,940	3,410	8,930	2,430	12,300	590	490	315
4	1,920	2,540	3,680	3,410	5,730	3,150	6,660	2,210	11,200	10,900	490	278
5	1,390	1,820	2,900	3,410	4,820	2,900	5,120	2,430	8,270	4,530	490	240
6	1,390	1,470	2,210	2,900	4,530	3,410	4,240	2,210	5,730	1,820	490	240
7	1,390	1,160	1,820	2,320	4,530	5,120	4,240	2,010	3,960	1,160	490	208
8	1,100	970	1,560	2,010	7,620	23,000	5,730	8,270	2,900	1,030	400	400
9	855	1,100	1,730	1,820	7,300	25,900	18,300	23,700	2,320	800	315	590
10	690	2,540	10,900	1,640	6,350	16,500	28,800	16,500	1,820	640	315	490
11	590	6,040	14,300	1,560	5,120	9,920	27,000	9,590	1,920	540	690	358
12	590	4,240	9,590	1,160	4,530	7,300	15,800	7,620	1,730	490	1,100	240
13	590	2,660	9,590	1,160	3,680	5,420	11,200	6,350	1,470	445	855	315
14	590	2,010	12,300	1,470	3,410	17,900	21,500	5,730	2,430	400	540	358
15	490	1,820	9,920	1,640	3,960	21,500	29,500	5,730	4,240	400	590	315
16	490	10,900	6,660	1,160	3,960	15,100	23,000	5,730	4,240	540	490	315
17	400	15,800	7,300	1,470	4,240	9,260	17,200	5,120	2,430	745	640	315
18	315	9,590	3,410	2,900	8,270	6,980	20,100	3,960	1,820	1,390	1,560	315
19	315	5,730	2,540	3,410	21,900	5,730	16,100	3,410	1,730	1,160	2,660	315
20	1,920	3,960	2,210	9,590	23,700	5,120	11,600	2,900	1,640	1,030	1,730	855
21	3,410	2,900	17,200	17,900	14,700	4,530	9,590	2,110	1,310	800	1,160	640
22	2,900	2,430	52,300	15,100	10,900	3,680	25,200	1,920	970	690	855	315
23	1,820	2,010	53,000	11,600	18,300	2,900	24,100	1,560	855	590	690	315
24	1,920	1,730	25,200	18,700	28,800	2,540	15,400	1,310	800	540	540	240
25	7,620	1,560	32,200	14,300	22,600	2,210	9,260	2,320	910	690	400	240
26	8,930	4,530	44,400	10,200	13,300	2,010	6,350	3,960	1,030	690	400	240
27	6,040	14,000	32,800	6,980	8,930	1,640	4,820	2,900	970	540	315	175
28	3,410	15,100	20,100	5,420	6,350	1,470	3,960	3,680	690	490	315	150
29	2,210	9,260	28,800	8,930	-------	1,310	3,150	14,700	590	400	240	125
30	1,560	8,270	25,600	15,100	-------	1,160	2,660	31,900	590	315	208	125
31	2,900	-------	14,300	28,100	-------	2,320	-------	49,900	-------	490	175	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8,930	315	2,150	0.824	0.95
November	15,800	970	5,170	1.98	2.21
December	53,000	1,560	15,100	5.78	6.68
January	28,100	1,160	6,950	2.66	3.07
February	28,800	3,410	10,400	3.98	4.14
March	25,900	1,160	7,160	2.74	3.16
April	29,500	2,660	13,500	5.17	5.77
May	49,900	1,310	7,650	2.93	3.38
June	39,100	590	4,620	1.77	1.98
July	10,900	315	1,160	.444	.51
August	2,660	175	700	.268	.31
September	855	125	329	.126	.14
The year	53,000	125	6,210	2.37	32.30

KENTUCKY RIVER AT LOCK 10, NEAR WINCHESTER, KY.

LOCATION.—Staff gage at Lock 10 in Madison County, 8 miles southwest of Winchester, Clark County. Zero of gage is 558.6 feet and crest of dam is 567.6 feet above mean sea level.

DRAINAGE AREA.—3,990 square miles.

RECORDS AVAILABLE.—October, 1909, to September, 1927.

EXTREMES.—Maximum discharge during year, about 60,100 second-feet December 24 (gage height, 29.2 feet); minimum, 251 second-feet September 27 (gage height, 9.53 feet).

1909–1927: Maximum discharge, about 68,500 second-feet March 29, 1913 (gage height, 35.1 feet); minimum mean daily discharge, 10 second-feet September 28, 1913 (subject to error on account of repair work on lock on that date).

REMARKS.—Records good except those for extremely low and extremely high water, which are fair. Slight regulation due to operation of locks negligible. Gage-height record furnished by the United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,140	9,420	11,200	14,300	29,400	6,840	27,900	4,130	49,200	680	1,600	300
2	6,840	10,500	9,420	9,760	18,700	5,770	24,300	3,690	50,000	680	1,830	300
3	7,440	7,440	7,440	7,140	11,600	5,040	19,700	3,690	31,900	540	1,230	407
4	3,690	4,810	5,770	6,020	8,400	5,040	11,200	4,580	16,000	3,060	960	549
5	4,130	3,690	4,810	5,040	7,140	4,810	7,760	4,350	12,300	8,080	900	558
6	4,810	2,860	4,130	4,350	6,560	5,040	6,560	3,910	8,080	3,690	785	523
7	3,060	2,490	3,480	3,910	8,080	7,140	5,770	3,480	6,020	1,990	785	455
8	2,490	1,990	2,860	3,270	9,080	23,200	6,560	7,140	4,810	1,370	785	840
9	1,990	2,490	2,670	2,860	9,080	32,400	19,200	22,700	4,130	960	785	960
10	1,600	2,670	5,520	2,860	8,400	29,900	29,400	26,400	3,270	630	730	900
11	1,370	4,580	15,100	2,490	7,140	16,000	34,600	15,600	3,270	680	680	785
12	1,300	5,770	13,500	2,490	6,020	10,500	29,400	10,100	3,060	558	1,020	680
13	6,020	4,350	12,700	1,990	5,280	8,080	15,600	8,080	2,490	540	1,300	549
14	6,280	3,480	14,300	2,670	6,020	16,000	20,700	7,760	5,280	472	1,160	540
15	3,270	3,480	13,900	3,060	5,520	25,800	27,900	8,080	6,560	730	1,230	514
16	1,910	9,760	10,100	2,490	5,040	22,700	31,900	7,760	5,770	840	1,090	391
17	1,440	17,300	6,840	2,490	5,040	14,700	26,400	6,840	4,580	630	1,020	345
18	1,160	15,100	5,280	3,270	8,740	10,100	20,700	6,020	3,480	960	1,230	338
19	960	9,420	4,130	5,520	22,700	9,760	24,800	6,020	3,480	1,520	3,060	391
20	4,130	6,840	3,910	15,600	29,900	9,080	18,700	5,040	3,690	1,230	2,860	558
21	9,420	4,810	15,100	35,600	25,800	9,760	16,000	4,130	2,670	1,090	2,150	960
22	6,020	4,130	40,500	37,300	18,700	7,760	19,700	3,480	2,150	1,600	1,600	840
23	4,350	3,480	49,700	34,200	17,800	6,280	29,900	2,860	1,830	1,910	1,160	514
24	5,770	3,270	59,300	29,900	26,400	5,280	25,300	2,670	1,520	1,160	785	352
25	16,000	3,690	57,400	26,900	30,900	4,580	14,300	6,280	1,370	785	680	330
26	14,300	7,140	54,800	17,300	22,200	3,690	9,420	8,400	1,300	785	612	272
27	10,800	14,300	53,800	11,200	13,100	3,270	6,840	6,020	1,440	840	523	279
28	6,840	19,200	50,700	8,400	9,080	2,860	5,520	6,280	1,300	785	447	258
29	4,580	17,300	38,100	12,000	------	3,690	4,580	18,700	1,020	630	515	279
30	3,480	13,500	36,400	19,700	------	2,320	4,350	30,400	960	612	375	345
31	5,040	------	27,900	24,300	------	8,400	------	40,500	------	1,600	315	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	16,000	960	5,080	1.27	1.46
November	19,200	1,990	7,310	1.83	2.04
December	59,300	2,670	20,700	5.19	5.98
January	37,300	1,990	11,600	2.91	3.36
February	30,900	5,040	13,600	3.41	3.55
March	32,400	2,320	10,500	2.63	3.03
April	34,600	3,450	18,200	4.56	5.09
May	40,500	2,670	9,520	2.39	2.76
June	50,000	960	8,100	2.03	2.26
July	8,080	472	1,340	.336	.39
August	3,060	315	1,100	.276	.32
September	960	258	510	.128	.14
The year	59,300	258	8,930	2.24	30.38

KENTUCKY RIVER AT LOCK 7, AT HIGHBRIDGE, KY.

LOCATION.—Staff gage at Lock 7 at Highbridge, Jessamine County, 1 mile below Dix River. Zero of gage is 505.44 feet and crest of dam is 514.6 feet above mean sea level.

DRAINAGE AREA.—5,080 square miles.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 71,400 second-feet December 26 (gage height, 34.8 feet); minimum discharge not determined; minimum stage, 9.3 feet September 5.

1925–1927: Maximum discharge, that of December 26, 1926; minimum, about 80 second-feet October 1, 1925 (gage height, 9.1 feet).

REMARKS.—Records good except those for ordinary low water, which are fair, and those for extremely low water, which are poor. The slight regulation due to operation of locks is negligible. Flow of Dix River regulated at Dix Dam. Gage-height record furnished by United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,380	11,300	14,700	19,900	29,100	9,820	32,600	5,950	47,600			
2	8,740	12,800	12,800	12,800	24,500	8,380	29,600	5,620	58,300			
3	6,630	10,600	10,600	10,600	15,500	7,330	22,800	5,290	52,200			
4	5,290	8,030	8,740	8,740	11,700	6,980	16,300	5,620	21,100			
5	5,950	5,950	6,630	7,680	9,820	6,630	11,300	6,630	15,100			
6	8,740	4,970	5,950	6,630	8,740	6,980	9,460	5,950	11,700	2,800	1,300	690
7	5,290	3,790	5,290	5,950	9,820	9,820	8,030	5,290	8,740			
8	4,660	3,520	4,660	5,290	10,900	22,800	8,380	10,200	6,980			
9	3,520	4,660	4,660	4,660	11,300	29,600	16,300	19,500	5,950			
10	2,540	5,290	5,950	4,360	10,600	31,700	33,000	25,300	4,970			
11	2,430	5,290	12,000	4,070	9,460	21,900	34,700	20,300	4,360			
12	2,430	7,680	15,500	4,070	8,740	14,300	32,600	13,200	4,360			
13	7,680	6,980	15,100	3,790	7,330	10,600	21,500	10,900	4,360			
14	10,200	4,970	15,100	3,520	8,740	15,100	23,200	10,200	5,950			
15	7,330	5,950	15,900	4,360	8,380	22,400	26,100	9,460	9,460			
16	4,070	13,200	12,800	4,070	7,680	24,900	30,900	9,460	7,680	1,300	1,400	740
17	2,430	16,300	10,900	4,070	7,680	18,300	29,100	9,100	5,620			
18	2,430	18,300	10,600	4,360	9,820	13,600	21,900	8,030	5,290			
19	2,430	13,600	5,620	6,630	20,300	12,400	26,600	8,030				
20	4,070	9,820	6,290	19,500	27,000	11,700	22,800	7,330				
21	11,300	6,980	17,900	46,200	29,100	17,900	17,900	5,950				
22	9,100	6,630	43,600	62,500	23,200	13,600	16,700	4,660				
23	6,980	5,950	57,000	53,600	19,900	10,600	25,700	4,360				
24	6,980	5,290	65,100	47,200	22,800	8,740	27,400	4,070				
25	20,700	4,660	69,000	31,300	29,600	7,330	18,700	10,600	2,700	1,600	1,300	670
26	17,500	12,400	70,900	24,000	27,000	5,950	12,400	13,200				
27	15,100	15,100	67,200	15,500	16,700	4,970	9,460	10,200				
28	10,900	18,700	65,300	12,000	12,400	4,970	8,030	10,200				
29	7,680	20,300	62,000	14,300	-------	4,360	6,630	37,400				
30	6,290	18,700	39,100	18,700	-------	4,070	6,290	30,900				
31	8,740	-------	33,400	22,800	-------	9,820	-------	35,600	-------			-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	20,700	2,430	7,310	May	37,400	4,070	11,900
November	20,300	3,520	9,590	June	58,300	-------	10,400
December	70,900	4,660	25,500	July	-------	-------	1,890
January	62,500	3,520	15,900	August	-------	-------	1,330
February	29,600	7,330	15,600	September	-------	-------	700
March	31,700	4,070	12,800				
April	34,700	6,290	20,200	The year	70,900	-------	11,100

KENTUCKY RIVER AT LOCK 4, AT FRANKFORT, KY.

LOCATION.—Staff gage at Lock 4 at Frankfort, Franklin County, one-fourth mile below Benson Creek. Zero of gage is 464.05 feet and crest of dam is 470.35 feet above mean sea level.

DRAINAGE AREA.—5,480 square miles.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 72,700 second-feet December 26 (gage height, 34.9 feet); minimum discharge not determined; minimum stage, 4.6 feet January 29.

1925–1927: Maximum discharge, that of December 26, 1926; minimum discharge, about 160 second-feet October 1–14, 1925.

REMARKS.—Records good except those for ordinary low water and for extremely high water, which are fair, and those for extremely low water, which are poor. The slight regulation caused by operation of lock and hemp mill at dam is negligible. Flow of Dix River regulated at Dix Dam. Gage-height record furnished by United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,920	12,100	16,700	30,400	29,000	10,100	34,000	6,500	52,300	1,920	1,720	501
2	9,140	12,600	13,800	15,500	30,800	9,140	41,200	5,720	59,700	1,640	2,000	450
3	7,340	11,600	11,100	11,600	19,100	24,500	27,000	5,340	61,400	1,720	2,440	450
4	5,720	8,680	9,620	9,140	13,200	7,340	20,200	6,920	49,200	1,460	1,800	300
5	7,780	6,500	7,340	7,780	10,600	6,920	13,200	6,500	18,500	4,090	1,640	300
6	9,620	5,340	6,100	6,920	9,620	6,920	9,620	6,500	12,600	6,920	1,390	345
7	6,500	4,620	5,720	6,100	9,140	10,100	8,680	5,340	10,100	4,440	1,150	800
8	4,980	3,750	5,720	5,720	10,600	23,000	8,220	10,100	7,780	2,920	940	1,000
9	4,090	4,440	4,620	5,720	10,600	30,400	14,300	17,300	6,500	2,440	800	1,220
10	3,240	6,100	5,340	4,980	10,600	39,200	30,800	25,000	5,340	1,640	800	1,220
11	2,600	4,980	9,140	4,260	9,620	30,800	41,200	25,000	4,980	1,390	800	1,220
12	2,920	6,500	16,100	3,920	8,680	16,700	42,300	15,500	4,620	1,290	800	1,070
13	11,100	6,920	15,500	3,920	7,780	12,100	29,500	11,600	4,440	1,290	800	1,000
14	12,100	5,720	14,900	4,440	10,600	13,800	24,500	10,600	4,620	1,220	1,220	1,000
15	8,680	6,100	16,100	4,620	9,140	20,800	26,000	10,100	8,680	1,220	1,390	1,000
16	5,340	13,200	14,300	4,620	8,220	26,500	32,200	9,620	7,780	1,220	1,460	1,000
17	3,580	14,300	11,100	4,260	7,780	22,400	36,500	9,620	7,340	1,460	1,290	1,000
18	2,920	19,100	8,220	4,440	8,680	19,600	27,500	9,620	14,300	1,460	1,070	620
19	2,760	15,500	6,500	10,100	18,500	13,800	29,500	10,100	5,340	1,720	1,070	345
20	3,580	10,600	5,720	24,000	26,500	14,300	26,500	7,780	4,620	2,000	3,240	501
21	9,620	7,780	16,700	55,200	33,100	24,500	20,800	6,500	4,980	2,140	3,240	860
22	10,100	6,500	52,000	68,300	28,500	17,300	17,300	5,340	4,090	2,000	2,600	940
23	7,340	5,720	60,400	69,200	22,400	12,100	23,500	4,620	4,090	4,440	2,000	1,000
24	7,780	5,340	63,800	67,000	22,400	9,620	30,800	4,620	3,240	3,080	1,540	860
25	23,000	4,980	68,400	59,300	30,000	7,780	23,500	9,620	2,920	1,800	1,390	800
26	20,200	10,600	72,500	41,200	34,000	6,920	14,300	14,300	3,240	1,540	1,150	501
27	17,300	14,300	71,600	32,000	21,300	6,100	10,600	12,100	2,290	1,390	1,000	450
28	12,600	18,500	69,600	19,000	13,800	5,340	8,680	11,600	2,600	1,390	800	450
29	8,680	21,300	68,600	18,000	------	4,980	6,920	30,000	2,440	1,460	620	569
30	6,500	22,400	63,300	21,000	------	4,440	8,220	42,600	2,140	1,460	620	620
31	10,600	------	53,700	24,500	------	8,220	------	39,800	------	1,720	620	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	23,000	2,600	8,210	May	42,600	4,620	12,800
November	22,400	3,750	9,870	June	61,400	2,140	12,700
December	72,500	4,620	27,900	July	6,920	1,220	2,120
January	69,200	3,920	20,900	August	3,240	620	1,400
February	34,000	7,780	16,900	September	1,220	300	746
March	39,200	4,440	15,000				
April	42,300	6,920	22,900	The year	72,500	300	12,600

SOUTH FORK OF KENTUCKY RIVER AT BOONEVILLE, KY.

LOCATION.—Tape gage on highway bridge at Booneville, Owsley County, 600 feet above Meadow Creek. Zero of gage is 645.47 feet above mean sea level.

DRAINAGE AREA.—697 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 44,100 second-feet December 22 (gage height, 34.5 feet); minimum, 15 second-feet September 29 and 30 (gage height, 1.40 feet).

1925–1927: Maximum discharge, that of December 22, 1927; minimum, 3.6 second-feet September 26 and 27, 1925 (gage height, 0.86 foot).

REMARKS.—Records good except those for extremely high and low water, which are fair. Discharge interpolated March 27–29. Flow in Meadow Creek included in records.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	940	2,940	2,220	1,470	2,860	825	1,540	715	6,220	70	39	28
2	665	1,400	1,540	1,060	1,770	880	2,700	548	2,300	65	41	24
3	487	880	1,060	940	1,330	715	1,470	470	3,840	132	39	23
4	527	615	825	770	1,060	665	1,120	508	2,780	276	49	23
5	381	450	615	715	940	715	1,000	615	1,540	212	46	23
6	665	349	527	527	1,000	825	1,060	527	1,060	135	39	19
7	570	290	398	470	1,540	1,120	940	488	825	102	41	22
8	365	262	349	391	1,840	13,300	2,070	2,070	665	77	43	33
9	276	349	548	377	1,540	6,500	7,440	6,500	488	68	37	46
10	209	715	7,350	377	1,190	2,620	15,000	2,070	391	60	222	44
11	197	1,060	3,020	337	1,000	1,620	6,220	1,700	437	52	334	31
12	162	825	1,620	288	880	1,190	2,460	1,330	363	46	162	24
13	162	615	2,540	288	770	1,000	2,380	1,060	312	42	107	27
14	134	487	3,100	337	880	9,240	8,040	1,060	300	40	319	29
15	119	527	1,770	470	940	5,940	10,100	1,120	421	33	290	27
16	103	6,680	1,190	421	880	2,300	1,470	1,060	421	44	222	24
17	88	3,020	825	665	1,000	1,330	4,960	880	312	38	185	24
18	81	1,540	715	715	2,220	1,120	3,760	715	276	102	1,540	16
19	92	1,120	548	770	8,040	1,060	2,780	548	243	140	880	111
20	468	880	507	2,940	3,590	880	1,700	453	212	140	319	62
21	381	715	11,700	5,500	2,140	770	1,840	363	182	92	197	37
22	450	615	42,500	3,340	2,000	665	10,000	391	172	65	140	85
23	319	527	13,600	2,860	5,680	570	4,360	312	172	92	101	59
24	548	468	5,400	5,400	7,850	508	3,100	288	172	115	75	43
25	2,300	487	18,100	2,940	3,020	453	1,920	1,060	182	209	59	35
26	2,140	2,070	20,300	1,770	1,920	363	1,060	1,060	163	119	51	24
27	1,120	6,120	5,400	1,330	1,400	350	940	715	126	79	43	21
28	715	2,700	3,180	1,120	1,060	338	770	1,000	102	62	34	19
29	487	1,620	2,220	3,680	------	325	665	10,600	94	54	35	15
30	365	2,300	3,840	5,860	------	312	570	13,800	79	49	33	15
31	1,120	------	2,140	9,940	------	363	------	10,600	------	55	29	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,300	81	537	0.770	0.89
November	6,680	262	1,420	2.04	2.28
December	42,500	349	5,150	7.39	8.52
January	9,940	288	1,870	2.68	3.09
February	8,040	770	2,150	3.08	3.21
March	13,300	312	1,900	2.73	3.15
April	15,000	570	3,450	4.95	5.52
May	13,800	288	2,080	2.98	3.44
June	6,220	79	828	1.19	1.33
July	276	33	94.0	.135	.16
August	1,540	29	186	.267	.31
September	111	15	33.8	.048	.05
The year	42,500	15	1,640	2.35	31.95

GREEN RIVER BASIN

GREEN RIVER AT LOCK 6, AT BROWNSVILLE, KY.

LOCATION.—Staff gage above Lock 6, 1 mile northeast of Brownsville, Edmonson County. Zero of gage is 413.16 feet, revised, and crest of dam is 421.1 feet, revised, above mean sea level.

DRAINAGE AREA.—2,740 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 62,800 second-feet January 24 (gage height, 34.3 feet); minimum, 290 second-feet September 18–27.

1925–1927: Maximum discharge, that of January 24, 1927; minimum, 205 second-feet on many days in October, November, 1924, August, September, and October, 1925 (gage height, 8.60 feet).

REMARKS.—Records good except those for extremely high water, which are fair. Gage-height record furnished by United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,150	12,000	12,000	21,400	12,300	4,790	9,230	6,160	29,600	1,450	1,100	370
2	9,230	12,000	11,200	10,300	10,900	4,570	12,600	5,230	19,600	1,760	1,160	370
3	8,960	10,000	9,230	7,910	9,500	4,150	12,600	4,360	11,200	2,180	1,160	370
4	5,690	7,140	6,890	6,640	8,430	4,150	10,900	4,360	9,500	2,610	900	354
5	6,640	5,460	5,460	5,690	7,650	4,150	8,170	4,570	8,170	3,160	780	354
6	11,700	4,360	4,570	5,010	6,640	4,790	7,650	5,690	6,640	1,760	780	354
7	12,300	3,740	3,940	4,360	6,160	6,160	6,640	6,400	5,460	1,450	780	354
8	9,230	3,160	3,540	3,940	5,920	12,000	6,640	6,160	4,570	1,230	780	354
9	6,160	3,740	3,540	3,540	5,690	16,500	10,000	6,160	3,940	1,100	736	354
10	4,150	4,570	4,570	3,350	5,010	16,500	14,800	6,640	3,350	1,100	714	354
11	4,360	5,920	6,640	3,160	4,360	13,900	15,100	6,160	2,970	1,030	736	354
12	5,230	6,160	6,890	2,790	4,150	9,500	13,900	4,790	2,610	900	626	330
13	5,230	4,790	7,140	2,610	3,940	11,200	11,400	3,940	2,430	900	560	330
14	9,500	3,940	8,690	2,790	5,010	11,400	10,000	5,920	2,970	900	560	330
15	10,900	5,230	9,230	2,970	5,230	11,400	9,500	6,640	4,360	900	560	330
16	8,170	6,640	8,170	2,790	4,790	10,900	9,500	6,160	4,360	900	560	306
17	5,460	9,230	5,920	2,610	4,360	9,230	9,230	5,690	3,540	900	670	306
18	3,940	10,900	4,570	2,790	5,690	9,230	8,690	4,360	3,940	900	758	290
19	3,540	9,500	3,940	3,940	9,230	12,000	8,690	3,740	3,940	840	965	290
20	3,540	6,400	3,740	17,600	12,900	15,800	8,960	3,350	3,350	840	965	290
21	7,390	5,230	10,300	35,300	12,600	27,600	7,910	2,790	2,610	780	840	290
22	8,170	4,360	29,400	48,700	10,300	29,100	6,890	2,430	2,790	780	725	290
23	7,140	3,940	37,400	56,500	9,230	26,300	5,920	2,430	2,430	780	670	290
24	6,640	3,740	46,800	62,500	9,500	15,100	5,230	2,790	2,180	840	670	290
25	8,690	3,540	54,000	60,500	9,500	10,300	4,570	6,640	1,920	1,100	615	290
26	13,200	5,230	58,000	52,800	8,170	8,690	3,940	8,690	1,680	1,030	560	290
27	13,900	10,900	56,200	39,500	6,640	7,390	3,540	8,960	1,600	840	460	290
28	12,000	14,500	52,500	22,000	5,690	6,160	3,160	10,300	1,600	780	460	330
29	7,650	15,500	48,200	10,600	-------	5,230	3,160	17,600	1,520	725	442	415
30	5,690	13,200	40,900	11,400	-------	4,790	5,690	22,900	1,450	681	415	965
31	8,690	-------	32,700	13,200	-------	5,010	-------	28,100	-------	965	379	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,900	3,540	7,650	2.79	3.22
November	15,500	3,160	7,170	2.62	2.92
December	58,000	3,540	19,200	7.01	8.08
January	62,500	2,610	17,100	6.24	7.19
February	12,900	3,940	7,480	2.73	2.84
March	29,100	4,150	10,900	3.98	4.59
April	15,100	3,160	8,470	3.09	3.45
May	28,100	2,430	7,100	2.59	2.99
June	29,600	1,450	5,210	1.90	2.12
July	3,160	681	1,160	.423	.49
August	1,160	379	712	.260	.30
September	965	290	349	.127	.14
The year	62,500	290	7,740	2.82	38.33

BARREN RIVER AT LOCK 1, AT GREENCASTLE, KY.

LOCATION.—Staff gage above Lock 1, half a mile southwest of Greencastle, Warren County, and half a mile above Lost Creek. Zero of gage is 404.79 feet, revised value, and crest of dam is 411.7 feet, revised value, above mean sea level.

DRAINAGE AREA.—1,950 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 37,500 second-feet December 24 (gage height, 27.0 feet); minimum, 183 second-feet September 11–19 and 23–27 (gage height, 7.40 feet).

1924–1927: Maximum discharge, that of December 24, 1926; minimum, 69 second-feet September 12–14, 1925 (gage height, 7.23 feet).

REMARKS.—Records good except those for extremely high water, which are fair. Discharge interpolated May 7. Gage-height record furnished by United States Engineer Corps.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	8,160	8,830	21,900	10,600	2,780	3,600	3,600	9,170	837	586	273
2	768	7,200	7,510	11,700	8,490	2,580	8,490	3,180	5,490	837	830	273
3	705	4,980	5,490	6,600	7,200	2,580	7,200	2,580	8,160	1,020	768	273
4	530	3,600	4,040	5,490	6,030	2,390	4,980	2,200	12,800	1,370	645	273
5	1,230	2,780	3,600	4,500	5,490	2,780	4,270	2,110	11,300	1,300	530	273
6	8,490	2,300	2,980	4,040	4,980	3,390	4,040	2,300	6,600	1,020	474	273
7	6,600	2,110	2,390	3,390	4,740	4,500	3,600	2,540	4,500	830	474	273
8	3,390	1,850	2,300	3,180	5,490	8,490	4,040	2,780	3,390	830	474	322
9	2,110	1,850	2,300	2,780	5,490	17,900	4,980	2,390	2,780	1,160	474	255
10	1,760	2,980	4,500	2,390	4,500	18,800	5,490	2,390	2,300	1,300	1,020	228
11	1,940	4,040	8,830	2,200	4,040	13,500	6,600	2,200	2,110	894	1,940	183
12	2,780	3,180	7,830	1,940	3,390	7,200	6,030	2,110	1,850	830	1,020	183
13	4,500	2,780	6,600	1,850	3,180	9,170	4,980	1,940	1,680	705	768	183
14	12,400	2,300	9,870	1,850	3,180	17,900	6,030	3,600	1,760	645	586	183
15	12,400	3,180	9,870	2,020	3,180	17,900	10,600	5,490	3,180	586	586	183
16	6,030	7,830	6,900	2,020	2,780	11,700	12,000	4,040	2,200	1,200	645	183
17	3,390	9,170	4,740	1,850	2,580	7,830	10,600	2,980	1,850	586	830	183
18	2,580	7,200	3,600	1,850	2,780	7,200	9,170	2,390	2,780	1,300	1,020	183
19	2,110	5,230	3,180	1,850	7,830	9,170	6,900	1,940	3,820	1,300	1,300	183
20	1,760	4,270	2,780	4,040	11,300	10,600	5,490	1,760	2,780	1,060	1,020	474
21	1,520	3,600	7,830	18,200	8,830	20,000	4,500	1,520	2,110	894	830	370
22	1,440	3,180	22,600	24,500	6,030	21,300	4,980	1,440	1,850	645	586	228
23	1,230	2,780	32,300	27,000	4,980	17,200	4,740	1,300	1,850	894	530	183
24	1,300	2,390	37,200	27,500	4,740	10,200	4,040	2,200	1,520	1,440	474	183
25	2,390	2,300	33,900	26,700	4,980	7,510	3,600	4,040	1,300	1,020	474	183
26	5,230	4,040	34,600	24,800	4,040	6,030	2,980	2,780	1,160	768	370	183
27	4,500	9,170	35,600	7,200	3,600	4,980	2,780	2,020	1,090	586	370	183
28	3,180	10,200	33,300	17,200	3,180	4,040	2,390	1,680	957	530	370	273
29	2,580	7,830	30,600	8,490	-------	3,600	2,300	5,490	957	474	370	273
30	2,200	7,200	28,600	7,510	-------	3,180	2,780	10,200	830	474	273	645
31	3,820	-------	26,500	9,870	-------	2,980	-------	11,700	-------	586	273	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	12,400	530	3,480	1.78	2.05
November	10,200	1,850	4,660	2.39	2.67
December	37,600	2,300	13,900	7.13	8.22
January	27,500	1,850	9,240	4.74	5.46
February	11,300	2,580	5,270	2.70	2.81
March	21,300	2,390	9,010	4.62	5.33
April	12,000	2,300	5,470	2.81	3.14
May	11,700	1,300	3,190	1.63	1.88
June	12,800	830	3,470	1.78	1.99
July	1,440	474	902	.463	.53
August	1,940	273	675	.346	.40
September	645	183	251	.129	.14
The year	37,600	183	4,970	2.55	34.62

WABASH RIVER BASIN

WABASH RIVER AT LOGANSPORT, IND.

LOCATION.—Staff gage at Cicott Street Bridge in Logansport, Cass County. Chain gage at same site used prior to April 1, 1927. Staff-gage datum approximately 2.85 feet above chain-gage datum.

DRAINAGE AREA.—3,830 square miles.

RECORDS AVAILABLE.—April, 1903, to July, 1906; May, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 54,700 second-feet March 22 (gage height, 14.85 feet; chain-gage datum); minimum, 517 second-feet, current-meter measurement, September 6 (gage height, 3.10 feet; chain-gage datum).

1923–1927: Maximum discharge, 57,400 second-feet March 15, 1925 (gage height, 15.90 feet); minimum, 111 second-feet October 22, 1924 (gage height, 2.04 feet); gage heights converted to chain-gage datum.

Maximum stage known, 25.5 feet, chain-gage datum, March 26, 1913.

REMARKS.—Records good except for extremely low stages, for which they are fair. Gage-height record to March 31 and two discharge measurements furnished by Department of Conservation, State of Indiana; gage-height record thereafter furnished by Wabash Hydroelectric Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20,500	8,600	4,450	1,360	38,700	3,960	6,900	14,100	5,700	1,050	1,050	720
2	24,900	7,200	3,500	1,540	24,900	3,050	22,700	8,200	3,960	1,050	1,200	668
3	26,000	4,950	2,520	1,360	17,200	2,720	22,700	5,700	3,500	1,050	975	615
4	35,100	3,960	2,110	1,360	17,200	2,520	13,600	4,450	5,450	1,050	780	615
5	27,100	3,050	1,920	1,200	20,500	2,310	16,100	3,270	19,400	1,050	780	568
6	17,200	2,720	1,720	1,540	32,700	2,110	18,300	2,830	14,100	908	780	568
7	14,100	2,720	1,540	1,360	29,300	2,720	10,600	2,520	7,800	908	780	586
8	10,200	2,310	1,720	1,540	18,300	4,950	6,900	2,520	5,450	1,120	720	615
9	6,600	2,110	1,720	1,540	12,100	6,600	6,600	2,620	3,960	1,280	780	615
10	4,950	3,050	2,110	1,360	8,600	5,450	16,100	3,050	3,050	975	780	615
11	3,960	3,050	2,520	1,360	6,000	4,450	12,100	3,960	2,410	908	780	1,720
12	3,500	2,310	2,310	1,360	4,950	3,500	7,200	3,050	2,310	840	780	3,500
13	3,050	2,110	2,310	1,360	3,500	3,050	5,450	2,720	2,010	840	720	3,050
14	1,920	2,110	2,310	1,200	3,500	12,100	6,600	2,410	1,720	840	668	1,540
15	2,520	1,920	2,310	3,050	4,450	11,100	6,300	2,110	1,720	1,630	668	975
16	2,310	1,920	1,720	3,050	4,950	7,200	5,450	2,110	1,540	1,820	615	780
17	2,110	1,920	1,360	3,050	7,800	8,600	12,100	2,010	1,540	1,720	615	668
18	1,820	1,920	1,360	2,520	6,000	4,950	11,100	3,270	2,520	1,450	615	668
19	1,720	1,920	1,720	1,720	6,000	7,800	24,900	38,100	1,820	1,200	668	668
20	1,720	1,920	1,720	1,720	3,960	32,700	26,600	44,700	2,110	908	668	668
21	1,720	1,920	1,540	3,050	3,050	53,400	17,200	39,900	1,920	780	568	668
22	1,720	1,720	1,360	6,600	3,050	54,700	10,200	27,100	2,110	780	568	646
23	1,720	1,540	1,360	8,600	2,720	49,500	7,200	15,600	2,520	780	586	615
24	1,720	1,360	1,360	9,400	2,520	32,700	5,450	14,100	1,920	780	615	615
25	2,310	1,360	1,360	7,200	2,520	16,100	4,450	28,200	1,720	780	615	615
26	2,720	1,360	1,360	5,450	3,050	10,200	3,730	26,000	1,540	688	615	615
27	2,720	1,720	1,540	3,960	3,050	7,200	3,730	17,800	1,360	668	615	615
28	2,310	2,520	1,540	3,050	4,950	5,450	5,200	10,200	1,280	688	568	720
29	2,110	3,050	1,360	3,050	-------	4,450	6,600	7,500	1,200	1,120	568	1,050
30	3,960	3,960	1,360	1,720	-------	3,960	20,000	6,000	1,050	908	568	2,720
31	7,800	-------	1,360	37,500	-------	3,500	-------	7,200	-------	1,050	720	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	35,100	1,720	7,810	2.04	2.35
November	8,600	1,360	2,740	.715	.80
December	4,450	1,360	1,890	.493	.57
January	37,500	1,200	4,000	1.04	1.20
February	38,700	2,520	10,600	2.77	2.88
March	54,700	2,110	12,000	3.13	3.61
April	26,600	3,730	11,400	2.98	3.32
May	44,700	2,010	11,400	2.98	3.44
June	19,400	1,050	3,620	.945	1.05
July	1,820	668	1,020	.266	.31
August	1,200	568	711	.186	.21
September	3,500	568	977	.255	.28
The year	54,700	568	5,650	1.48	20.02

EMBARRASS RIVER AT STE. MARIE, ILL.

LOCATION.—Chain gage in sec. 30, T. 6 N., R. 14 W., at highway bridge at Ste. Marie. Zero of gage is 447.14 feet above mean sea level.

DRAINAGE AREA.—1,540 square miles.

RECORDS AVAILABLE.—October, 1909, to December, 1912, and August, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 39,000 second-feet May 30 (gage height, 24.3 feet); minimum, 66 second-feet September 27 (gage height, 1.51 feet.)

1909–1912, 1914–1927: Maximum discharge, that of May 30, 1927; minimum, 1.0 second-foot September 5–9 and October 19, 1914 (gage height, 1.1 feet).

REMARKS.—Records good for medium stages and fair for low and high stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,560	1,060	1,340	465	7,300	620	7,020	950	22,600	675	340	165
2	5,980	920	1,120	465	7,740	590	8,130	860	12,700	615	1,200	150
3	6,520	860	985	490	7,300	565	9,690	770	10,900	540	675	135
4	7,300	770	890	650	7,020	540	7,860	710	9,780	490	540	128
5	8,280	710	830	1,260	7,020	540	6,200	650	8,580	465	340	120
6	11,200	620	770	2,810	7,110	540	6,200	590	7,070	415	320	120
7	11,200	565	710	1,840	6,120	1,440	4,620	565	5,420	390	365	112
8	10,500	540	650	1,340	4,280	4,330	2,910	1,230	4,260	365	855	590
9	9,950	920	680	1,120	3,510	2,520	4,920	985	3,630	320	2,280	490
10	8,990	1,120	650	860	2,960	1,260	6,280	3,670	2,320	320	795	340
11	7,740	1,120	590	740	2,420	920	4,440	2,610	1,960	280	735	240
12	3,670	950	590	590	2,020	830	3,210	1,680	1,790	260	795	180
13	2,520	890	565	620	2,200	4,330	4,380	1,440	2,010	250	1,200	150
14	2,060	860	565	1,520	4,220	2,660	6,360	1,200	1,960	280	2,190	128
15	1,760	1,090	490	1,440	3,360	2,060	6,520	920	1,630	250	2,460	120
16	1,520	2,910	280	1,230	2,200	1,600	5,980	770	1,510	250	1,350	112
17	1,340	1,840	250	1,090	1,880	1,440	5,840	680	1,470	365	1,060	112
18	1,200	2,290	240	1,370	1,640	5,490	7,620	985	1,920	540	1,430	105
19	1,060	2,380	368	3,560	1,370	7,740	7,510	5,100	1,390	615	855	98
20	1,060	1,880	465	5,160	1,200	19,900	7,510	7,020	1,390	705	735	90
21	950	1,760	465	4,560	1,120	27,600	7,740	6,520	2,140	440	540	82
22	860	1,600	465	3,460	1,020	19,400	6,840	2,520	3,930	440	440	79
23	770	1,370	590	2,860	985	11,500	3,780	1,980	2,930	365	365	74
24	710	1,200	590	1,840	890	8,990	2,910	3,670	2,240	320	340	72
25	680	1,060	1,090	1,640	830	8,280	2,240	7,020	1,960	320	300	69
26	620	1,520	770	2,110	800	7,860	1,800	7,860	1,790	280	260	69
27	590	2,910	830	1,520	740	5,910	1,560	8,130	1,310	240	260	66
28	565	1,480	800	1,300	680	3,060	1,340	8,280	950	220	240	105
29	540	1,480	650	1,800	------	2,290	1,200	11,500	885	220	210	280
30	650	1,980	540	5,630	------	1,840	1,120	38,300	765	705	190	415
31	1,440	------	490	6,680	------	1,600	------	28,800	------	540	172	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,200	540	3,800	2.47	2.85
November	2,910	540	1,360	.883	.99
December	1,340	240	655	.425	.49
January	6,680	465	2,000	1.30	1.50
February	7,740	680	3,210	2.08	2.17
March	27,600	540	5,100	3.31	3.82
April	9,690	1,120	5,120	3.32	3.70
May	38,300	565	5,100	3.31	3.82
June	22,600	765	4,110	2.67	2.98
July	705	220	403	.262	.30
August	2,460	172	769	.499	.58
September	590	66	167	.108	.12
The year	38,300	66	2,640	1.71	23.32

EAST FORK OF WHITE RIVER AT SHOALS, IND.

LOCATION.—Water-stage recorder in sec. 30, T. 3 N., R. 3 W., at highway bridge at Shoals. Chain gage was used prior to July 26, 1927. Zero of gage is 442.97 feet above mean sea level.

DRAINAGE AREA.—4,900 square miles.

RECORDS AVAILABLE.—June, 1903, to July, 1906; October, 190°, to September, 1916; and October, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 42,800 second-feet January 27 (gage height, 26.7 feet); minimum, 224 second-feet August 28 (gage height, 1.88 feet).

Highest known flood, 42.2 feet March 28, 1913.

REMARKS.—Records good. Diurnal fluctuation at low water due to hydroelectric plant at Williams. Gage-height record furnished by United States Weather Bureau. Part of discharge measurements furnished by Department of Conservation, State of Indiana.

Daily and monthly discharge, in second feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,320	14,300	5,950	6,160	17,000	6,160	7,840	15,400	18,800	2,760	655	684
2	6,790	13,900	5,110	5,530	13,200	5,530	12,700	13,100	16,500	2,310	967	552
3	9,050	14,300	4,900	4,900	12,300	4,900	13,900	11,800	14,300	2,310	1,160	496
4	9,650	14,100	4,270	4,690	11,400	4,690	16,500	11,000	11,200	1,820	1,980	452
5	10,600	13,400	4,060	5,740	9,850	4,270	17,500	9,850	8,850	1,740	1,650	570
6	12,100	9,850	3,850	7,840	8,650	4,270	20,600	7,840	8,250	1,740	1,830	636
7	12,900	7,210	3,200	9,650	8,250	4,060	18,600	6,580	8,250	1,580	1,300	600
8	13,200	6,160	3,200	9,650	8,250	4,060	18,800	7,420	7,000	1,580	1,420	562
9	13,200	5,110	3,200	8,850	10,000	2,030	19,300	13,600	5,740	1,220	1,600	1,050
10	12,100	4,690	2,760	7,210	10,800	4,690	19,900	17,700	4,690	1,430	1,940	1,970
11	9,650	4,690	3,420	5,740	9,650	4,480	17,800	23,100	4,060	1,100	2,550	1,380
12	7,630	4,480	2,760	4,270	7,840	4,270	13,100	23,100	3,640	1,500	2,250	838
13	5,320	4,480	3,200	3,850	6,580	5,320	8,650	24,100	3,420	1,160	1,650	778
14	4,690	4,060	3,420	4,480	5,950	16,100	8,650	24,700	6,160	1,160	1,250	693
15	4,270	4,270	2,980	5,530	6,160	17,000	7,420	21,800	10,400	1,160	849	706
16	3,850	4,270	2,760	4,060	6,790	18,300	7,420	16,500	9,850	1,500	1,230	679
17	3,420	4,480	2,760	3,640	7,630	19,800	7,840	12,000	10,600	1,100	1,180	619
18	3,420	5,110	2,640	3,850	7,630	19,800	7,630	8,850	7,420	1,160	1,180	706
19	2,980	5,320	1,910	8,250	7,420	22,000	7,840	10,200	5,530	1,160	1,420	488
20	2,760	5,110	2,310	21,700	6,580	21,800	9,450	21,000	4,480	985	1,060	591
21	2,980	4,270	2,530	25,400	5,950	26,200	14,300	21,700	4,690	1,040	895	569
22	2,760	4,270	2,200	27,200	5,740	29,000	16,500	20,600	8,450	1,040	596	579
23	2,420	4,060	3,850	32,300	5,740	30,000	18,000	21,200	11,400	1,160	1,130	574
24	2,530	2,980	1,500	35,400	6,370	32,900	17,800	23,900	10,600	1,220	877	486
25	2,420	2,980	6,790	39,000	7,210	32,800	15,100	19,100	11,800	650	726	284
26	2,980	3,200	6,790	42,500	6,790	42,000	11,000	19,400	7,630	926	676	249
27	4,060	3,420	7,420	42,800	6,160	41,500	7,840	19,100	4,900	904	1,010	436
28	4,900	4,480	7,840	41,500	6,160	37,400	6,580	20,100	3,850	901	369	1,350
29	5,530	6,160	7,840	38,000	-------	29,300	5,950	25,000	3,420	878	571	4,900
30	9,450	6,580	7,630	33,400	-------	16,800	14,300	24,200	2,980	836	794	9,990
31	11,800	-------	7,000	24,900	-------	8,650	-------	21,500	-------	984	744	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,200	2,420	6,600	1.35	1.56
November	14,300	2,980	6,390	1.30	1.45
December	7,840	1,500	4,200	.857	.99
January	42,800	3,640	16,700	3.41	3.93
February	17,000	5,740	8,290	1.69	1.76
March	42,000	2,530	16,800	3.43	3.95
April	20,600	5,950	13,000	2.65	2.96
May	25,000	6,580	17,300	3.53	4.07
June	18,800	2,980	7,960	1.62	1.81
July	2,760	650	1,320	.269	.31
August	2,550	369	1,210	.247	.28
September	9,990	249	1,150	.235	.26
The year	42,800	249	8,420	1.72	23.33

LITTLE WABASH RIVER AT WILCOX, ILL.

LOCATION.—Chain gage in SW. ¼ sec. 3, T. 2 N., R. 8 E., at highway bridge at Wilcox and a quarter of a mile below Big Muddy Creek.

DRAINAGE AREA.—1,130 square miles.

RECORDS AVAILABLE.—August, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,490 second-feet March 21 (gage height, 23.7 feet); minimum, 10 second-feet September 3 (gage height, 2.04 feet).

1914–1927: Maximum discharge, estimated 14,000 second-feet August 22, 1915 (gage inaccessible); minimum, 2.0 second-feet September 1, 1926 (gage height, 1.65 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,980	583	1,870	379	3,770	216	2,170	264	5,600	110	264	45
2	3,910	615	1,140	379	3,910	264	3,770	252	5,400	80	132	28
3	4,050	379	615	379	4,050	240	4,610	288	5,300	90	100	10
4	4,330	327	405	867	4,190	204	4,470	252	5 110	90	80	39
5	4,330	160	379	1,620	4,330	240	4,610	182	4,470	80	193	58
6	4,470	132	276	2,900	4,190	252	4,330	171	2,170	72	204	80
7	4,330	100	182	2,290	2,070	702	3,770	182	1,260	51	216	100
8	4,190	905	204	2,170	1,500	2,020	3,170	1,060	792	58	228	80
9	4,050	943	204	1,970	1,140	2,740	2,820	2,020	535	18	792	288
10	3,770	1,060	228	1,060	1,020	1,870	2,070	3,070	327	28	943	392
11	2,020	1,720	276	583	684	1,970	2,590	3,770	301	30	615	615
12	792	943	353	276	583	886	3,070	1,460	252	28	447	505
13	433	490	252	379	720	1,770	3,770	615	366	45	216	447
14	327	583	252	943	2,020	3,170	3,910	433	599	58	1,060	366
15	301	615	276	1,870	2,980	2,980	4,190	461	829	72	1,020	193
16	182	2,120	204	649	2,290	2,070	4,610	327	702	100	848	171
17	160	2,660	160	1,060	2,070	1,220	4,610	228	327	28	792	149
18	100	2,660	138	2,020	1,060	2 900	4,470	379	252	23	632	132
19	72	2,350	160	3,170	615	4,190	3,910	1,020	240	34	520	100
20	100	2,020	110	3,910	433	4,930	3,520	1,620	738	58	461	72
21	160	1,340	182	4.190	379	9,490	2,660	2,170	505	64	240	100
22	100	943	252	4,610	353	7,600	2,410	2,530	314	90	193	80
23	122	301	301	4,050	379	5,300	2,290	2,740	1,040	132	132	45
24	327	327	756	3,770	252	4,610	2,170	3,520	1,460	475	110	28
25	252	353	867	3,280	252	4,470	1,420	4,610	848	193	100	45
26	138	1,060	943	3,170	276	3,640	1,060	4,610	366	17	80	58
27	110	2,590	792	1,540	252	1,970	419	4,770	193	132	80	34
28	100	2,900	583	1,060	252	905	433	5,020	182	45	64	45
29	583	2,900	490	1,460	-------	615	314	5,110	149	72	100	90
30	520	2,470	453	3,910	-------	379	301	5,110	132	240	80	122
31	461	-------	416	4,610	-------	1,040	-------	5,020	-------	223	23	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	4,470	72	1,540	1.36	1.57
November	2,900	100	1,220	1.08	1.20
December	1,870	110	443	.392	.45
January	4,610	276	2,080	1.84	2.12
February	4,330	252	1,640	1.45	1.51
March	9,490	204	2,410	2.13	2.46
April	4,610	301	2,930	2.59	2.89
May	5,110	171	2,040	1.81	2.09
June	5,600	132	1,360	1.20	1.34
July	475	18	96.9	.086	.10
August	1,060	23	354	.313	.36
September	615	10	151	.134	.15
The year	9,490	10	1,350	1.19	16.24

SALINE RIVER BASIN

MIDDLE FORK OF SALINE RIVER NEAR HARRISBURG, ILL.

LOCATION.—Chain gage in sec. 13, T. 9 S., R. 6 E., on highway bridge 2 miles east of Harrisburg. Zero of gage is 338.51 feet above mean sea level.

DRAINAGE AREA.—198 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined; maximum gage height, 20.55 feet January 23; minimum, 0.3 second-foot September 20, 21, and 26.

1922–1927: Maximum discharge, not determined; maximum gage height, that of January 23, 1927; higher stage may have occurred February 2–4, 1923, when water was over old bridge; minimum discharge, that during September, 1927.

REMARKS.—Records fair except for days when stage was changing rapidly, for which they are poor. Discharge for days when no discharge is shown not determined because of backwater from Ohio River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	139	112	112					2,160		6.0	23	0.6
2	22	46	67					1,110		5.2	7.0	.6
3	12	22	58					173		3.6	5.5	1.8
4	3.6	18	50					131		3.2	3.9	50
5	7.4	16	38					110		2.8	2.8	30
6	3.8	13	30					1,070		2.5	2.1	6.7
7	2.1	10	26					2,320		2.5	1.6	2.4
8	1.7	16	20					1,810		2.0	4.6	1.4
9	1.4	954	38			133		990		1.6	4.1	1.2
10	4.3	900	82			82		1,920		23	2.4	.8
11	6.6	157	18	42		58		2,020		5.2	1.2	.8
12	4.3	62	50	29		453		1,070	0.9	4.4	1.1	.7
13	3.1	42	38	38		1,120		359	60	2.8	7.8	.7
14	2.4	32	21	112		1,010		85	18	3.8	68	.6
15	2.0	662	16	62				46	11	120	11	.6
16	1.8	464	12	34				34	7.7	68	3.5	.4
17	1.4	238	9.6	26				23	22	23	2.2	.4
18	1.8	499	9.6	704				20	9.0	8.3	1.7	.4
19	2.1	112	8.8	2,830	72			298	149	5.2	1.7	.5
20	746	62	34	3,390	58			56	155	3.6	1.8	.3
21	245	46	746	2,910	82			32	970	2.5	.5	.3
22	38	62	1,160	3,470	182			125	2,060	6.0	.7	.4
23	13	87	1,070		107			475	1,740	4.0	1.0	.5
24	284	97	776		67			377	910	2.0	30	.4
25	92	122	535		58			810	314	1.7	3.5	.4
26	50	884	133					554	44	1.5	1.4	.3
27	14	1,050					54	68	29	1.5	1.2	.6
28	10	367					38		11	1.2	.6	5.8
29	718	475					523		9.0	7.7	.5	435
30	238	182					2,710		7.1	314	.7	1,099
31	732									258	.6	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	746	1.4	110	0.556	0.64
November	1,050	10	260	1.31	1.46
July	314	1.2	28.9	.146	.17
August	68	.5	6.38	.032	.04
September	1,090	.3	54.5	.275	.31

CUMBERLAND RIVER BASIN

CUMBERLAND RIVER AT BARBOURVILLE, KY.

LOCATION.—Chain gage on highway bridge at Barbourville, Knox County, a quarter of a mile above Richland Creek. Elevation of zero of gage is 942.26 feet (United States Engineer Department datum of 1889).

DRAINAGE AREA.—982 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 40,100 second-feet December 22 (gage height, 45.9 feet); minimum, 33 second-feet September 26 and 30 (gage height, 0.32 foot).

1922–1927: Maximum discharge, that of December 22, 1926; minimum, 4.4 second-feet September 12, 1925 (gage height, −0.04 foot).

REMARKS.—Records below 4,000 second-feet, good; others, fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,640	1,120	3,630	3,300	8,220	1,640	3,150	1,200	23,800	255	85	140
2	1,280	980	2,720	2,200	4,090	1,360	6,430	1,120	5,720	215	88	124
3	1,050	810	2,080	1,640	2,720	1,200	4,040	1,050	6,040	510	102	170
4	980	690	1,540	1,540	2,320	1,200	2,580	1,050	7,150	1,360	102	225
5	630	600	1,280	1,360	2,200	1,050	1,960	980	4,560	750	136	180
6	510	480	1,200	1,280	3,000	1,280	2,080	840	2,720	510	110	160
7	425	452	1,050	1,050	4,640	2,200	1,850	810	2,080	359	85	170
8	337	398	1,120	910	4,560	10,600	1,960	1,280	1,850	282	92	315
9	276	600	2,450	840	3,900	14,400	3,150	1,280	1,640	240	2,580	480
10	240	4,260	14,500	840	2,860	7,740	5,990	3,150	1,360	220	1,200	398
11	200	3,540	10,700	690	2,200	4,510	9,890	2,200	1,200	180	980	266
12	245	1,540	4,420	600	1,640	3,430	4,870	1,740	980	165	690	195
13	220	1,120	2,560	840	1,640	2,450	3,430	1,450	1,280	160	398	152
14	195	840	7,220	980	2,080	5,610	4,690	1,960	3,150	128	425	180
15	180	980	4,780	1,120	3,430	8,290	12,200	1,850	4,180	116	570	165
16	160	7,150	3,150	1,200	3,300	4,600	7,220	1,960	2,200	132	600	120
17	170	7,740	1,850	1,450	4,780	3,150	7,340	1,540	1,450	315	398	116
18	160	3,780	1,450	1,640	5,610	2,200	7,030	1,200	1,120	348	540	96
19	185	2,450	1,280	1,450	14,800	1,740	4,920	1,050	980	320	1,850	106
20	276	1,850	980	1,280	10,900	2,200	3,430	910	810	293	1,200	124
21	348	1,640	17,700	1,450	5,360	1,640	3,150	690	660	245	720	136
22	354	1,280	38,900	2,200	3,900	1,360	6,670	600	750	260	570	102
23	452	1,050	36,600	2,450	8,800	1,200	8,220	540	720	1,120	425	75
24	425	980	17,800	2,720	19,800	1,050	4,510	510	570	600	337	62
25	1,280	980	26,900	3,300	12,000	1,050	2,860	630	480	364	266	48
26	2,450	4,180	38,100	3,300	4,690	910	2,080	690	452	230	282	38
27	1,450	10,400	24,200	2,080	2,860	810	1,640	600	398	170	364	68
28	1,050	7,540	15,300	2,200	1,960	720	1,360	3,300	342	120	315	55
29	780	3,900	20,200	4,510	-------	660	1,120	10,000	298	113	205	43
30	540	3,780	14,500	7,670	-------	630	980	17,500	255	92	170	35
31	810	-------	5,880	14,900	-------	630	-------	30,700	-------	106	140	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,450	160	623	0.634	0.73
November	10,400	398	2,570	2.62	2.92
December	38,900	980	10,600	10.8	12.45
January	14,900	600	2,350	2.39	2.76
February	19,800	1,640	5,300	5.40	5.62
March	14,400	630	2,950	3.00	3.46
April	12,200	980	4,360	4.44	4.95
May	30,700	510	3,040	3.09	3.56
June	23,800	255	2,640	2.69	3.00
July	1,360	92	332	.338	.39
August	2,580	85	517	.526	.61
September	480	35	151	.154	.17
The year	38,900	35	2,940	2.99	40.62

CUMBERLAND RIVER AT CUMBERLAND FALLS, KY.

LOCATION.—Staff gage 400 feet above falls at Cumberland Falls post office, Whitley County, 13 miles east of Cumberland Falls railroad station. Elevation of zero of gage is 823.48 feet (United States Engineer Department datum of 1889).

DRAINAGE AREA.—2,010 square miles.

RECORDS AVAILABLE.—August, 1907, to December, 1911; April, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 51,900 second-feet December 25 (gage height, 11.4 feet); minimum, 63 second-feet September 30 (gage height, 1.18 feet).

1907–1911, 1915–1927: Maximum discharge, 59,600 second-feet January 28, 1918 (gage height, 12.5 feet); minimum, 12 second-feet September 10–12, 1925 (gage height, 1.02 feet).

REMARKS.—Records good. Low-water flow may be affected to small extent by operation of power plant at Williamsburg, 25 miles above.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,330	2,920	7,260	10,400	18,600	3,570	2,920	2,440	20,400	1,200	282	256
2	3,570	2,920	5,750	5,080	11,400	3,300	6,860	2,330	19,200	1,270	310	239
3	2,440	2,110	4,450	3,850	6,100	3,050	8,550	2,110	15,000	1,200	256	248
4	2,000	1,670	3,570	3,300	4,760	2,680	5,750	2,110	12,400	1,270	222	500
5	2,000	1,360	2,920	2,920	4,450	2,680	4,150	2,110	10,900	1,070	187	539
6	1,670	1,180	2,440	2,560	4,760	3,300	3,570	2,000	6,100	1,020	157	380
7	1,180	1,000	2,330	2,220	6,470	4,450	3,300	1,890	3,570	830	143	412
8	937	875	2,110	2,000	8,550	13,400	3,570	1,890	3,300	513	129	380
9	800	1,360	2,800	1,780	7,260	19,800	4,450	2,330	2,800	340	770	350
10	714	3,180	21,700	1,670	5,750	21,700	5,410	4,150	2,440	273	3,050	412
11	630	5,410	21,000	1,560	4,450	14,000	10,400	3,570	2,220	330	2,680	330
12	578	3,850	14,500	1,560	3,570	7,680	11,900	3,300	1,890	310	1,670	282
13	526	2,680	9,930	1,360	3,300	5,410	7,680	3,050	1,460	282	890	256
14	500	2,220	11,900	1,360	3,850	15,000	6,860	2,800	2,000	248	604	239
15	478	2,220	10,400	1,560	4,760	16,800	10,900	3,300	4,760	222	954	222
16	434	10,900	6,860	1,890	5,080	12,900	17,400	3,180	4,760	171	1,090	205
17	401	11,900	4,760	2,000	5,750	7,260	15,000	2,800	3,180	136	971	187
18	360	9,930	3,570	2,440	8,550	5,080	13,400	2,560	2,680	1,040	2,560	171
19	330	5,750	2,920	2,560	15,600	4,150	10,900	2,000	2,220	860	5,750	157
20	360	4,150	2,560	2,440	19,200	3,570	7,260	1,670	1,780	742	5,080	143
21	401	3,570	26,200	2,560	15,600	3,850	6,100	1,270	1,560	658	3,300	129
22	489	3,050	42,100	3,300	9,460	3,300	13,400	1,090	1,460	604	1,160	116
23	604	5,410	35,800	4,150	20,400	2,800	14,500	1,000	1,460	604	658	104
24	728	2,220	39,300	4,450	26,800	2,560	11,400	4,450	1,270	1,560	578	93
25	1,360	2,110	50,500	5,080	24,200	2,440	7,260	2,680	1,090	1,360	539	83
26	2,220	5,410	46,300	5,410	17,400	2,220	4,450	2,330	860	714	489	78
27	3,300	13,400	39,300	4,760	7,680	2,000	3,850	2,110	714	500	445	73
28	2,440	14,000	36,500	4,150	4,760	1,780	3,050	8,110	526	350	401	68
29	1,780	10,400	37,900	6,860	-------	1,670	2,680	18,000	456	273	360	73
30	1,360	8,110	26,800	14,500	-------	1,560	2,560	23,000	380	222	320	63
31	2,920	-------	21,700	19,800	-------	1,460	-------	20,400	-------	171	282	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,570	330	1,290	0.642	0.74
November	14,000	875	4,840	2.41	2.69
December	50,500	2,110	17,600	8.76	10.10
January	19,800	1,360	4,180	2.08	2.40
February	26,800	3,300	9,950	4.95	5.16
March	21,700	1,460	6,300	3.14	3.62
April	17,400	2,560	7,650	3.81	4.25
May	23,000	1,000	4,390	2.18	2.51
June	20,400	380	4,430	2.20	2.46
July	1,560	136	656	.326	.38
August	5,750	129	1,170	.582	.67
September	539	63	226	.112	.12
The year	50,500	63	5,200	2.59	35.10

CUMBERLAND RIVER AT BURNSIDE, KY.

LOCATION.—Staff gage on South Fork of Cumberland River 700 feet above mouth at Burnside, Pulaski County, in pool formed by Dam No. 21, 28 miles downstream. Elevation of zero of gage is 583.5 feet (United States Engineer Department datum of 1889).

DRAINAGE AREA.—4,890 square miles, including area of South Fork of Cumberland River.

RECORDS AVAILABLE.—October, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 127,000 second-feet December 26 (gage height, 59.3 feet); minimum, 150 second-feet September 28–28 (gage height, 1.9 feet).

1914–1927: Maximum discharge, roughly, 157,000 second-feet January 29, 1918 (gage height, 69.5 feet); minimum, 65 second-feet September 6–20, 1925 (gage height, 1.85 feet). Lower stages have been recorded but were due to lowering of pool at Dam No. 21.

The flood of January 29, 1918, reached the highest stage since 1884.

REMARKS.—Records fair below 30,000 second-feet; subject to error above that stage. Tables of discharge include flow in main river and South Fork. Stage at low water affected by manipulation of the level of pool No. 21 at the lock.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,080	11,000	22,900	28,300	37,200	9,720	5,560	5,840	36,500	1,130	200	450
2	6,850	9,400	17,800	16,300	27,500	8,650	16,100	5,420	33,100	920	200	360
3	5,840	7,150	13,400	11,200	19,000	8,050	18,200	5,000	26,200	920	200	275
4	4,300	5,000	10,200	9,400	13,600	7,600	15,400	4,720	28,300	920	450	275
5	3,080	4,020	8,350	7,900	11,700	7,000	11,200	5,560	24,100	820	275	540
6	3,080	3,080	7,000	6,700	11,300	8,050	9,400	5,560	17,200	1,020	275	630
7	3,600	2,820	5,840	5,700	13,400	10,200	8,650	5,000	11,300	1,350	200	630
8	2,690	2,300	5,140	5,000	17,800	42,700	8,500	5,000	8,650	1,130	200	540
9	2,060	2,950	6,120	4,440	17,200	50,100	14,300	7,900	7,150	820	1,130	540
10	1,240	7,900	34,500	4,160	14,300	39,500	25,200	10,200	5,980	720	1,940	450
11	1,350	9,720	39,700	3,880	11,200	32,900	32,500	9,250	5,000	630	4,300	450
12	1,350	9,560	28,300	3,600	9,400	21,300	24,100	7,750	6,400	540	2,820	450
13	1,350	7,300	24,300	3,340	7,900	14,500	19,000	6,400	5,000	540	1,700	450
14	1,350	5,700	28,300	3,210	8,050	15,900	16,300	5,980	4,020	540	1,350	450
15	1,350	4,580	24,700	3,740	11,800	44,600	26,800	7,900	5,700	540	1,130	360
16	1,130	22,100	18,400	5,000	11,700	30,500	24,500	7,600	7,750	630	1,020	360
17	1,130	31,800	12,900	4,300	11,000	20,700	24,700	6,400	7,000	630	1,130	275
18	1,020	21,700	9,560	4,440	12,500	14,500	24,900	5,280	5,000	920	1,940	275
19	920	16,300	7,900	5,140	27,500	13,600	24,900	4,580	4,440	1,460	3,600	275
20	920	12,700	6,400	6,260	33,800	13,600	20,700	4,020	4,300	1,460	6,260	360
21	1,130	9,880	16,700	18,400	33,400	10,700	16,700	3,470	3,740	1,350	4,300	275
22	3,600	8,200	117,000	24,500	22,900	9,720	22,300	2,950	2,950	1,020	2,820	200
23	2,180	7,150	104,000	21,300	22,900	8,650	33,800	2,300	2,690	1,130	1,940	150
24	1,700	6,120	72,200	20,300	58,800	7,600	25,200	2,560	2,560	1,580	1,460	150
25	3,740	5,700	106,000	22,500	45,800	7,600	18,200	7,600	2,430	1,700	1,130	150
26	9,720	10,000	126,000	17,200	32,700	7,150	12,700	11,700	2,430	1,580	1,020	150
27	7,750	34,900	104,000	14,000	22,100	6,120	9,880	10,000	2,180	1,130	820	150
28	6,400	30,500	69,200	11,300	13,600	5,420	8,050	10,200	2,060	720	720	150
29	4,860	23,500	84,800	14,300	-------	4,860	6,850	34,700	1,700	630	630	200
30	3,600	22,100	71,200	27,500	-------	4,300	5,840	43,000	1,350	540	450	200
31	4,300	-------	45,300	42,700	-------	3,880	-------	37,200	-------	360	450	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,720	920	3,110	0.636	0.73
November	34,900	2,300	11,800	2.41	2.69
December	126,000	5,140	40,300	8.24	9.50
January	42,700	3,210	12,100	2.47	2.85
February	58,800	7,900	20,700	4.24	4.42
March	50,100	3,880	15,800	3.23	3.72
April	33,800	5,560	17,700	3.62	4.04
May	43,000	2,300	9,390	1.92	2.21
June	36,500	1,350	9,240	1.89	2.11
July	1,700	360	948	.194	.22
August	6,260	200	1,490	.305	.35
September	630	150	339	.069	.08
The year	126,000	150	11,900	2.43	32.92

CUMBERLAND RIVER AT CELINA, TENN.

LOCATION.—Staff gage at boat landing at Celina, Clay County, 900 feet below mouth of Obey River. Elevation of zero of gage is 487.7 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—7,320 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 176,000 second-feet December 29 (gage height, 57.2 feet); minimum, 365 second-feet September 27–30 (gage height, 0.8 foot).

1922–1927: Maximum discharge, that of December 29, 1926; minimum, 92 second-feet September 2, 11–14, and 26, 1925 (gage height, 0.2 foot).

REMARKS.—Records good below 10,000 second-feet; fair between 10,000 and 35,000 second-feet; and fair to poor above 35,000 second-feet. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,980	10,100	38,800	141,000	56,100	24,300	8,250	9,300	64,000	2,400	1,370	935
2	2,750	12,600	34,000	120,000	58,200	16,300	14,000	8,400	57,900	2,180	1,370	935
3	5,620	11,100	27,600	89,600	48,600	13,100	18,000	7,660	54,600	2,520	1,040	725
4	7,800	10,400	21,000	40,800	34,000	12,300	21,000	6,820	56,400	2,290	1,040	725
5	6,270	8,850	15,700	16,500	24,300	12,300	22,100	6,820	46,200	1,600	830	625
6	6,960	6,140	12,600	12,300	19,600	13,400	18,400	7,380	38,500	1,600	830	625
7	6,270	4,980	10,400	10,400	20,600	14,800	14,700	8,550	28,500	1,600	830	625
8	4,620	4,260	8,850	9,000	23,200	39,900	12,800	7,800	19,400	1,600	830	1,040
9	4,260	5,100	8,100	7,800	23,900	55,800	14,500	6,960	13,400	2,060	3,100	1,040
10	3,440	9,000	27,100	6,960	24,300	67,200	20,000	6,960	10,700	2,060	3,670	1,260
11	2,860	10,600	40,200	6,400	21,000	67,200	28,500	12,800	8,700	1,480	3,100	1,040
12	2,750	12,400	53,400	5,750	17,000	58,800	37,500	11,800	7,240	1,370	2,750	935
13	3,320	12,800	57,600	5,490	14,100	41,100	36,000	10,100	6,680	1,260	4,380	830
14	8,700	11,100	52,500	5,230	12,800	35,000	35,500	9,460	7,800	1,150	3,320	830
15	3,900	8,850	46,500	4,980	12,300	30,500	34,000	9,460	7,240	1,150	3,100	830
16	2,980	18,800	37,800	4,860	14,000	44,100	34,000	8,700	6,540	1,370	2,290	830
17	2,520	27,100	29,200	5,360	15,400	48,000	37,000	9,300	8,250	1,720	1,940	830
18	2,290	38,200	21,300	5,360	15,400	36,000	36,500	8,550	9,460	1,720	1,720	830
19	2,060	35,200	15,200	6,010	28,000	26,100	35,500	7,380	8,700	1,480	3,100	725
20	1,600	26,100	11,800	7,240	34,000	31,000	34,800	6,270	7,380	1,720	3,320	725
21	1,600	19,000	37,800	20,000	40,800	22,800	35,500	5,490	6,010	1,830	6,400	525
22	1,830	14,800	95,200	24,300	40,800	19,200	28,000	4,860	5,750	2,060	5,880	525
23	1,370	12,100	119,000	34,000	38,500	16,300	26,600	4,380	5,230	2,060	4,500	525
24	2,060	10,300	124,000	35,000	43,800	14,300	37,200	4,980	5,230	1,830	3,320	525
25	5,360	9,150	148,000	34,500	55,800	13,100	36,500	6,140	4,500	1,830	2,520	525
26	7,240	14,300	164,000	33,800	65,100	12,600	28,300	9,000	4,140	1,720	1,940	525
27	9,940	29,800	168,000	27,600	58,800	11,600	19,800	13,300	3,780	1,940	1,720	365
28	11,200	40,500	168,000	21,700	42,000	10,300	14,500	15,700	3,670	2,180	1,600	365
29	10,700	46,500	176,000	20,800	-------	9,000	11,900	33,500	3,100	1,720	1,370	365
30	7,240	46,800	171,000	25,900	-------	7,950	9,940	49,800	2,640	1,480	1,040	365
31	7,660	-------	156,000	45,000	-------	7,240	-------	64,800	-------	1,370	935	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	11,200	1,370	4,840	0.661	0.76
November	46,800	4,260	17,600	2.40	2.68
December	176,000	8,100	67,600	9.23	10.64
January	141,000	4,860	26,900	3.67	4.23
February	65,100	12,300	32,200	4.40	4.58
March	67,200	7,240	26,800	3.66	4.22
April	37,500	8,250	25,400	3.47	3.87
May	64,800	4,380	12,300	1.68	1.94
June	64,000	2,640	17,100	2.34	2.61
July	2,520	1,150	1,750	.239	.28
August	6,400	830	2,420	.331	.38
September	1,260	365	718	.098	.11
The year	176,000	365	19,600	2.68	36.30

CUMBERLAND RIVER AT CARTHAGE, TENN.

LOCATION.—Staff gage at highway bridge at Carthage, Smith County, a quarter of a mile below Caney Fork and 8 miles above Lock and Dam No. 7. Elevation of zero of gage is 435.9 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—10,740 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 209,000 second-feet December 30 (gage height, 59.8 feet); minimum, 500 second-feet September 28 and 30.

1922–1927: Maximum discharge, that of December 20, 1926; minimum, 200 second-feet September 10 and 11, 1925 (regulated flow).

REMARKS.—Records good between 3,000 and 130,000 second-feet; fair to poor beyond these limits. Low-water flow is regulated considerably by operation of large hydroelectric plant on Caney Fork.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,040	13,800	49,700	183,000	67,900	42,300	15,800	14,800	60,700	5,620	7,740	3,020
2	6,510	12,700	42,300	168,000	71,700	29,500	26,300	13,400	59,500	5,620	6,210	2,890
3	7,120	15,500	36,400	151,000	68,700	25,900	31,300	12,400	56,500	5,040	5,040	3,020
4	8,690	14,400	30,600	124,000	59,200	23,000	34,200	11,700	58,000	4,480	4,480	3,020
5	9,330	11,300	24,800	75,600	43,800	22,700	31,360	11,700	52,700	3,400	4,480	2,400
6	9,010	9,660	19,400	25,600	37,200	22,300	30,600	15,200	43,400	2,890	3,930	1,460
7	8,050	7,740	16,200	19,400	36,400	28,800	29,200	14,100	35,700	3,140	3,660	915
8	6,210	6,510	14,800	16,900	36,800	52,700	25,600	18,700	27,700	3,930	3,140	1,200
9	5,910	8,370	22,000	13,800	36,800	68,700	23,800	12,700	20,200	4,480	4,480	1,350
10	5,620	12,000	39,400	13,000	35,700	81,800	32,000	12,000	15,500	3,930	9,010	1,690
11	4,760	14,100	46,800	12,000	32,800	90,400	47,500	15,500	12,700	3,140	8,050	1,690
12	3,930	15,500	53,500	10,600	28,800	84,200	58,800	18,400	11,000	2,520	7,120	1,200
13	3,930	16,200	63,700	9,990	25,600	70,200	58,000	16,200	10,300	2,280	6,510	915
14	9,990	15,500	68,700	10,600	26,300	61,100	52,700	15,500	10,600	2,280	7,430	915
15	7,740	16,200	63,700	9,990	29,200	53,500	49,000	16,200	10,600	2,520	5,910	852
16	5,040	22,700	49,700	9,340	27,000	54,200	44,900	14,100	9,660	3,930	5,330	1,920
17	3,930	28,400	40,900	8,690	26,300	57,300	46,000	13,400	9,660	3,930	5,620	1,460
18	3,140	39,400	31,300	9,990	28,400	50,800	46,800	13,400	23,800	3,660	6,810	852
19	3,140	41,600	24,800	10,600	37,900	43,800	43,800	13,000	16,900	3,930	7,120	1,130
20	2,520	30,000	20,200	11,700	49,000	41,200	44,600	12,000	12,700	3,020	6,510	2,020
21	2,020	27,700	60,300	22,000	49,700	37,900	45,300	9,660	10,300	2,760	6,810	1,690
22	2,640	23,000	110,000	30,600	49,000	31,300	40,500	8,370	11,000	3,400	9,010	1,920
23	2,760	18,000	126,000	42,700	53,500	26,600	34,900	7,430	10,600	5,040	7,740	1,920
24	3,660	15,500	137,000	48,300	64,100	24,500	39,400	7,740	11,000	4,200	6,810	1,920
25	5,910	14,800	156,000	49,000	76,400	22,000	43,100	10,600	9,660	3,930	5,620	1,690
26	8,370	22,700	181,000	47,500	77,200	20,500	37,500	10,600	7,740	3,140	5,040	1,260
27	9,660	35,700	200,000	42,300	74,000	20,200	29,900	14,800	6,810	3,140	4,480	642
28	12,400	43,100	202,000	36,400	62,600	18,400	23,400	19,100	6,210	3,930	3,930	560
29	11,700	49,700	204,000	34,200	-------	15,800	18,700	28,400	6,210	3,930	3,140	600
30	9,990	53,500	208,000	39,800	-------	14,100	16,600	44,600	6,210	4,200	2,520	600
31	14,100	-------	200,000	53,500	-------	14,400	-------	55,000	-------	3,400	2,890	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	14,100	2,020	6,540	0.609	0.70
November	53,500	6,510	21,800	2.03	2.26
December	208,000	14,800	82,000	7.64	8.81
January	183,000	8,690	43,200	4.02	4.64
February	77,200	26,300	46,900	4.37	4.55
March	90,400	14,100	40,300	3.75	4.32
April	58,800	15,800	36,700	3.42	3.82
May	55,000	7,430	16,200	1.51	1.74
June	60,700	6,210	21,500	2.00	2.23
July	5,620	2,280	3,700	.344	.40
August	9,010	2,520	5,700	.531	.61
September	3,020	560	1,560	.145	.16
The year	208,000	560	27,100	2.52	34.24

CUMBERLAND RIVER AT NASHVILLE, TENN.

LOCATION.—Staff gage at municipal wharf at Broad and First Streets, Nashville, Davidson County, 2½ miles above Lock and Dam No. 1. Elevation of zero of gage is 366.17 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—12,860 square miles.

RECORDS AVAILABLE.—October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 203,000 second-feet January 1 (gage height, 56.2 feet); minimum, 1,170 second-feet September 17, 20, 29, and 30 (gage height, 6.8 feet).

1918–1927: Maximum discharge, that of January 1, 1927; minimum, 760 second-feet September 7 and September 11 to October 2, 1925 (gage height, 6.5 feet).

REMARKS.—Records good. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,640	22,830	65,900	203,000	58,700	72,000	26,300	19,100	50,800	6,270	4,470	2,600
2	4,760	17,900	62,400	200,000	68,000	59,000	29,000	16,500	57,700	5,960	7,220	3,370
3	9,620	16,100	54,300	192,000	76,700	41,600	32,000	14,400	60,400	7,880	6,900	2,850
4	8,910	17,200	44,300	180,000	77,400	30,600	34,600	13,100	61,100	7,550	5,350	2,600
5	10,700	17,200	36,300	166,000	72,700	26,300	36,000	12,300	60,700	5,350	4,760	3,110
6	17,200	13,500	29,000	148,000	62,100	24,600	36,000	17,200	57,700	4,190	4,760	2,850
7	11,500	11,500	22,800	122,000	52,400	24,300	33,100	21,600	49,800	3,370	4,470	2,360
8	9,620	9,260	19,400	73,400	47,300	60,400	31,400	17,600	39,500	8,220	3,910	1,680
9	7,550	13,900	19,100	34,300	43,700	68,800	28,200	18,900	30,300	4,760	6,270	1,490
10	6,900	21,100	46,700	18,400	42,200	77,000	32,800	15,700	22,100	4,760	9,260	1,490
11	6,580	17,600	50,800	16,100	39,800	81,400	61,400	13,500	16,500	4,190	13,900	1,490
12	5,960	17,600	53,000	13,960	37,200	86,400	60,700	15,200	13,100	3,640	9,260	1,680
13	5,650	18,200	65,900	12,700	32,800	104,000	68,800	18,400	11,100	3,110	8,560	1,490
14	5,650	18,700	75,600	11,900	30,600	109,000	73,400	19,100	11,500	2,600	7,220	1,490
15	8,910	21,400	76,300	11,900	29,200	99,300	70,200	18,400	11,500	2,600	6,900	1,490
16	9,620	32,600	74,900	11,100	30,900	84,600	63,100	17,600	10,700	2,600	6,580	1,320
17	6,270	29,500	65,200	10,400	29,500	72,400	60,000	14,800	9,980	3,910	4,760	1,170
18	4,760	33,700	52,000	9,620	31,400	67,000	56,600	13,500	18,200	4,760	5,350	1,490
19	4,190	43,100	38,600	9,980	42,200	71,600	54,300	13,900	30,100	3,910	7,550	1,320
20	3,640	47,600	29,500	11,900	45,200	72,000	51,700	13,500	21,400	3,910	7,880	1,170
21	3,370	42,500	54,600	23,300	53,000	60,700	64,500	11,900	15,200	3,910	6,580	1,490
22	3,370	33,100	113,000	27,100	54,900	53,600	58,700	10,400	11,900	3,110	6,270	1,490
23	2,600	26,600	120,000	36,600	55,300	41,900	50,400	8,910	11,900	3,640	8,560	1,490
24	2,850	21,400	124,000	47,600	65,500	32,800	41,900	7,880	11,500	4,760	7,880	1,890
25	4,190	18,400	140,000	57,700	68,000	28,400	41,300	7,880	11,100	4,760	6,580	1,890
26	6,580	26,000	156,000	57,300	73,100	25,000	45,200	9,620	9,980	4,190	5,650	1,680
27	8,560	36,300	160,000	55,600	77,000	22,800	42,800	9,620	8,560	3,370	4,470	1,320
28	9,980	42,800	164,300	53,600	76,700	21,800	34,000	13,100	7,220	3,110	4,190	1,320
29	12,700	47,900	183,000	44,600	.....	19,800	31,400	17,600	6,270	3,370	4,190	1,170
30	12,700	63,400	197,000	42,500	.....	18,200	21,600	22,800	6,270	3,910	3,910	1,170
31	19,800	.....	200,000	54,000	.....	16,900	.....	39,800	.....	3,910	2,600	.....

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	19,800	2,600	7,690	0.598	0.69
November	63,400	9,260	26,400	2.05	2.29
December	200,000	19,100	83,700	6.51	7.50
January	203,000	9,620	63,100	4.91	5.66
February	77,400	29,200	52,600	4.09	4.26
March	109,000	16,900	54,000	4.20	4.84
April	73,400	21,600	45,700	3.55	3.96
May	39,800	7,880	15,600	1.21	1.40
June	61,100	6,270	24,800	1.93	2.15
July	8,220	2,600	4,370	.340	.39
August	13,900	2,600	6,330	.492	.57
September	3,370	1,170	1,780	.138	.15
The year	203,000	1,170	32,100	2.50	33.86

CUMBERLAND RIVER AT CLARKSVILLE, TENN.

LOCATION.—Staff gage at steamboat landing at Clarksville, Montgomery County, 1 mile above mouth of Red River. Red River discharge included in records. Elevation of zero of gage is 329.3 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—15,980 square miles, including Red River.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 216,000 second-feet January 2 (gage height, 60.0 feet); minimum, 1,560 second-feet September 18 (gage height, 12.1 feet).

1922–1927: Maximum discharge, that of January 2, 1927; minimum 780 second-feet September 3, 1925 (gage height, 11.7 feet).

REMARKS.—Records fair. Records include flow of Red River. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,240	32,600	71,000	215,000	69,900	84,400	42,900	32,200	49,200	8,060	6,700	3,440
2	4,810	25,500	69,200	216,000	77,300	77,700	47,400	25,900	57,700	8,060	6,700	3,190
3	9,120	21,100	62,900	215,000	87,700	62,900	43,700	21,800	64,800	14,500	8,410	3,700
4	9,840	18,900	53,300	212,000	93,600	59,200	44,400	19,200	73,600	11,300	7,370	3,700
5	16,000	20,000	44,400	206,000	94,000	35,200	45,900	18,100	72,900	8,760	6,370	3,440
6	20,700	17,800	37,400	197,000	88,800	32,200	48,500	26,600	69,200	6,700	5,730	3,700
7	17,800	14,500	31,100	185,000	81,400	31,500	44,400	37,800	62,500	5,730	5,420	3,440
8	13,100	12,700	25,200	162,000	72,900	74,000	41,800	29,600	55,100	5,730	5,110	2,940
9	10,600	8,410	22,600	124,000	64,000	92,100	40,300	27,000	40,000	8,760	7,710	2,460
10	8,760	23,300	50,700	91,400	56,600	93,600	45,200	27,400	31,100	6,700	10,600	2,460
11	11,300	22,600	58,500	63,600	50,700	96,200	88,400	25,200	23,300	6,050	12,000	2,000
12	10,200	20,000	56,600	38,500	46,600	98,400	94,000	21,100	18,500	5,420	11,600	2,230
13	11,600	19,600	65,100	20,000	42,900	123,000	94,400	22,600	16,000	4,810	10,900	2,230
14	13,100	20,400	79,200	17,000	40,700	149,000	104,000	28,900	14,900	4,240	9,480	2,230
15	10,200	26,600	81,800	16,300	38,500	154,000	106,000	24,400	15,200	3,700	8,760	2,000
16	12,700	45,500	81,000	16,000	38,500	141,000	102,000	24,800	14,200	3,440	8,760	2,000
17	10,600	42,200	76,600	14,900	38,500	128,000	102,000	22,200	13,400	4,240	7,710	1,780
18	8,060	41,100	64,400	14,200	41,800	113,000	95,100	19,200	18,100	6,050	6,700	1,560
19	6,700	47,000	48,800	13,800	57,000	112,000	85,500	18,500	34,800	6,050	6,700	1,780
20	5,110	52,600	38,100	17,000	58,100	116,000	77,000	18,100	31,100	5,110	8,760	1,780
21	5,110	50,300	62,900	58,800	60,300	116,000	84,400	17,000	22,200	4,810	8,410	1,780
22	4,520	42,600	132,000	66,600	63,300	111,000	89,900	15,200	21,500	4,520	7,710	1,780
23	4,240	34,800	152,000	71,000	63,600	98,100	79,200	13,800	15,600	3,970	8,060	2,000
24	4,520	29,200	155,000	75,500	67,700	77,700	65,500	12,000	16,000	5,110	9,120	2,000
25	6,700	24,400	166,000	81,800	75,500	60,000	57,400	11,300	14,200	6,050	8,760	2,000
26	8,410	23,700	187,000	81,800	78,400	44,000	52,200	11,300	13,100	5,730	7,710	2,230
27	9,480	35,500	194,000	78,400	82,900	34,800	51,800	12,700	12,000	4,810	6,370	2,000
28	10,900	47,700	195,000	72,200	85,100	31,800	45,200	13,400	10,600	4,240	5,730	2,000
29	12,400	49,600	202,000	64,400	-------	29,600	36,600	19,200	9,120	3,970	5,420	2,230
30	14,200	61,100	210,000	58,800	-------	27,000	35,200	23,300	8,060	4,520	4,520	3,190
31	20,000	-------	214,000	65,100	-------	24,100	-------	35,900	-------	5,420	4,240	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	20,700	4,240	10,200	0.638	0.74
November	61,100	8,410	31,000	1.94	2.16
December	214,000	22,600	96,400	6.03	6.95
January	216,000	13,800	91,300	5.71	6.58
February	94,000	38,500	64,900	4.06	4.23
March	154,000	24,100	81,500	5.10	5.88
April	106,000	35,200	66,300	4.15	4.63
May	37,800	11,300	21,800	1.36	1.57
June	73,600	8,060	30,600	1.91	2.13
July	14,500	3,440	6,020	.377	.43
August	12,000	4,240	7,660	.479	.55
September	3,700	1,560	2,440	.153	.17
The year	216,000	1,560	42,400	2.65	36.02

ROCKCASTLE RIVER AT ROCKCASTLE SPRINGS, KY.

LOCATION.—Staff gage at Rockcastle Springs, Laurel County, 2 miles below Cane Creek. Elevation of zero of gage is 687.2 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—746 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 26,100 second-feet December 22 (gage height, 25.5 feet); minimum, 13 second-feet September 25 (gage height, 0.18 foot).

1922–1927: Maximum discharge, 31,600 second-feet January 3, 1924 (gage height, 29.9 feet); minimum, 9 second-feet October 5, 1922, and September 12, 1925 (gage height, 0.10 foot).

REMARKS.—Records below 7,000 second-feet good; others fair to poor depending upon stage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	765	2,930	3,090	2,220	3,450	1,110	2,080	810	4,220	81	33	23
2	1,110	1,800	2,150	1,410	2,290	1,060	5,500	675	2,450	78	32	20
3	675	1,060	1,530	1,170	1,800	960	2,530	585	3,630	78	33	23
4	465	765	1,170	1,010	1,470	810	1,730	585	4,950	69	34	129
5	328	630	960	910	1,290	810	1,410	1,410	2,530	62	31	64
6	310	505	810	765	1,290	910	1,290	1,010	1,530	54	28	52
7	385	425	675	630	1,530	1,170	1,060	960	1,170	50	26	40
8	292	385	485	585	1,660	12,000	1,170	1,170	910	46	30	35
9	245	585	1,530	545	1,470	7,640	6,920	7,760	720	42	109	38
10	215	1,350	3,630	505	1,290	3,180	14,400	3,010	585	40	99	50
11	185	960	2,770	465	1,110	2,290	9,580	2,010	1,350	42	93	40
12	178	810	2,080	425	960	1,660	3,270	1,410	1,170	44	84	32
13	185	675	3,010	385	860	1,290	2,290	1,170	765	43	58	31
14	190	585	4,020	545	860	3,450	5,170	1,410	720	54	42	28
15	185	675	3,360	960	860	4,320	5,500	1,870	765	48	40	25
16	170	4,950	1,730	720	765	2,690	3,360	1,590	675	46	78	24
17	157	2,930	1,230	765	810	1,870	3,010	1,230	485	137	161	21
18	149	1,940	1,010	810	1,060	1,530	2,610	960	385	111	260	20
19	145	1,660	810	960	7,280	1,730	4,020	810	345	75	585	23
20	155	1,410	960	2,370	3,920	1,660	3,180	720	328	56	275	23
21	3,010	1,170	9,080	13,600	2,770	1,530	3,010	585	275	48	165	19
22	1,940	960	26,100	8,840	2,690	1,470	5,500	465	230	56	133	16
23	810	810	12,200	4,950	4,420	1,290	3,920	425	202	49	109	15
24	485	765	7,280	9,080	5,840	1,110	2,530	445	180	44	84	15
25	2,220	765	18,800	6,560	3,630	960	1,800	2,530	159	68	54	14
26	3,090	3,270	18,400	2,690	2,530	860	1,350	3,360	141	78	46	15
27	1,530	8,840	7,400	1,940	1,730	720	1,110	2,370	129	59	38	15
28	960	3,630	5,960	1,410	1,350	630	910	2,930	119	48	33	16
29	675	2,290	10,800	3,180	------	585	765	8,120	102	42	28	15
30	545	3,720	5,170	6,920	------	525	675	12,300	88	37	24	15
31	2,220	------	5,280	6,200	------	630	------	4,120	------	34	21	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,090	145	773	1.04	1.20
November	8,840	385	1,780	2.39	2.67
December	26,100	485	5,270	7.06	8.14
January	13,600	385	2,690	3.61	4.16
February	7,280	765	2,180	2.92	3.04
March	12,000	525	2,010	2.69	3.10
April	14,400	675	3,390	4.54	5.06
May	12,300	425	2,220	2.98	3.44
June	4,950	88	1,040	1.39	1.55
July	137	34	58.7	.079	.09
August	585	21	92.5	.124	.14
September	129	14	29.9	.040	.04
The year	26,100	14	1,790	2.40	32.63

NEW RIVER NEAR NEW RIVER, TENN.

LOCATION.—Chain gage on highway bridge 1½ miles above Cincinnati, New Orleans & Texas Pacific Railroad bridge at New River, Scott County, and 2 miles above mouth of Brimstone Creek. Elevation of zero of gage is 1,095.25 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—312 square miles.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 19,000 second-feet December 25 (gage height, 25.0 feet); minimum, 13 second-feet numerous times in September (gage height, 0.60 foot).

1922–1927: Maximum discharge, that of December 25, 1926; minimum, 0.2 second-foot August 6 and 7, 1925 (gage height, 0.22 foot).

Maximum stage known, 33.0 feet in February, 1903.

REMARKS.—Records good below 4,000 second-feet; fair to poor for higher stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	205	1,210	890	1,710	510	650	320	1,770	85	22	19
2	59	180	890	650	1,210	545	1,410	275	1,120	79	22	19
3	61	148	650	545	890	440	935	218	1,020	79	52	19
4	61	122	510	475	850	440	690	192	935	73	40	19
5	69	98	410	395	1,020	615	615	180	690	54	30	19
6	71	83	365	335	1,070	850	935	218	475	50	28	19
7	67	77	305	275	2,190	1,310	890	205	475	38	19	19
8	63	73	260	245	1,710	5,850	890	180	350	45	20	17
9	59	290	3,380	230	1,260	4,010	1,160	158	275	94	28	13
10	58	290	5,530	218	935	3,240	1,460	138	230	245	59	13
11	56	380	1,660	192	730	1,770	1,160	155	218	335	49	45
12	54	275	1,210	168	545	1,160	890	165	260	205	25	42
13	52	205	3,380	218	730	810	690	138	218	140	24	30
14	50	192	2,310	275	2,370	8,590	615	475	320	90	33	25
15	50	545	1,310	320	1,610	2,550	475	305	320	75	118	16
16	49	3,940	850	395	1,160	1,410	440	245	260	65	69	13
17	47	1,160	580	380	890	935	1,360	192	205	69	56	13
18	45	1,160	475	365	1,020	730	1,210	172	245	138	1,160	13
19	45	980	395	350	2,070	650	935	155	545	290	475	35
20	45	770	350	395	1,770	650	770	128	410	152	205	47
21	42	545	7,240	650	1,210	615	770	108	320	101	130	28
22	47	440	7,870	2,680	1,410	475	4,170	92	350	75	96	19
23	40	365	2,750	1,510	11,400	440	1,830	85	335	58	63	16
24	43	305	3,520	1,610	3,800	410	1,120	112	260	50	54	13
25	61	305	16,900	1,360	1,830	395	850	260	205	43	56	22
26	142	2,250	10,000	1,020	1,160	335	510	245	192	36	33	17
27	128	2,680	2,250	770	850	305	425	160	230	31	31	13
28	98	1,210	4,890	545	615	260	350	1,410	180	26	25	13
29	83	1,460	5,530	3,590	------	260	335	1,710	148	22	24	13
30	87	1,660	2,010	2,890	------	218	335	1,510	98	16	22	13
31	122	------	1,310	4,010	------	230	------	1,510	------	22	19	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	142	40	64.9	0.208	0.24
November	3,940	73	746	2.39	2.67
December	16,900	260	2,910	9.33	10.76
January	4,010	168	902	2.89	3.33
February	11,400	545	1,710	5.48	5.71
March	8,590	218	1,320	4.23	4.88
April	4,170	335	962	3.08	3.44
May	1,710	85	368	1.18	1.36
June	1,770	98	422	1.35	1.51
July	335	16	92.9	.298	.34
August	1,160	19	99.6	.319	.37
September	47	13	20.7	.066	.07
The year	16,900	13	798	2.56	34.68

SOUTH FORK OF CUMBERLAND RIVER AT NEVELSVILLE, KY.

LOCATION.—Staff gage one-fourth mile below Turkey Creek Ferry on Greenwood-Monticello pike, 1 mile from Nevelsville, McCreary County, and 1¾ miles below mouth of Little South Fork. Elevation of zero of gage is 635.57 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—1,260 square miles.

RECORDS AVAILABLE.—March, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 57,100 second-feet December 26 (gage height, 37.8 feet); minimum, 53 second-feet September 24 (gage height, 1.64 feet).

1915–1927: Maximum discharge, 84,300 second-feet January 28, 1918 (gage height, 51.4 feet); minimum, 13 second-feet September 3, 1925 (gage height, 1.39 feet).

REMARKS.—Records good below 25,000 second-feet; fair for higher stages. Operation of small power plant short distance above gage may affect flow at extremely low water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	1,390	5,740	4,280	7,060	2,360	3,380	1,330	8,710	380	124	92
2	635	1,030	3,650	3,290	4,770	2,220	4,470	1,150	5,300	320	133	88
3	535	850	2,970	2,890	3,560	2,010	3,470	1,090	5,520	286	144	86
4	445	660	2,290	2,290	3,380	1,870	2,810	1,520	5,860	286	151	490
5	490	560	1,940	1,870	3,560	2,220	2,360	1,390	4,370	254	153	445
6	585	490	1,660	1,590	4,570	3,830	2,430	1,450	2,810	239	148	104
7	512	422	1,520	1,390	6,700	5,410	2,650	1,210	2,150	196	139	96
8	400	340	1,270	1,210	6,220	18,600	2,890	1,030	1,870	183	120	90
9	320	2,010	3,130	1,090	4,470	10,600	4,470	910	1,450	170	360	92
10	254	3,050	25,900	1,030	3,470	12,000	5,190	795	1,150	163	239	96
11	254	2,150	17,000	910	2,570	6,700	4,370	740	970	254	170	98
12	270	1,390	5,300	795	2,290	4,670	3,380	850	850	360	158	106
13	270	1,150	7,300	795	2,010	3,470	3,210	795	850	380	151	84
14	239	1,030	6,700	970	5,860	18,600	6,100	795	970	286	196	94
15	254	2,650	5,190	1,030	5,190	10,400	4,190	1,150	1,210	254	196	88
16	224	17,700	3,470	910	3,830	5,410	3,210	910	970	270	196	86
17	224	5,980	2,570	1,030	3,050	4,010	4,470	795	795	286	254	84
18	210	3,740	2,150	1,210	4,470	3,130	4,870	685	1,150	360	270	80
19	196	3,380	1,800	1,330	8,190	2,890	4,280	660	1,330	340	1,390	78
20	224	3,210	1,660	1,390	5,300	3,290	3,380	585	1,450	468	685	71
21	254	2,290	36,700	2,080	4,870	2,810	4,280	512	1,150	380	445	69
22	224	1,870	54,100	6,940	4,870	2,360	12,800	445	1,030	340	320	62
23	210	1,730	13,400	4,190	19,300	2,150	7,670	445	1,270	320	270	59
24	254	1,590	14,900	3,920	28,500	2,010	4,670	970	1,030	303	210	53
25	850	1,520	52,700	4,280	6,700	2,290	3,560	1,520	910	224	170	82
26	740	6,580	57,100	3,380	2,570	2,010	2,570	1,270	910	196	148	78
27	660	12,500	12,300	2,970	3,470	1,800	2,500	1,090	740	163	131	73
28	560	5,860	17,700	2,430	2,730	1,520	2,150	7,180	685	146	117	71
29	445	3,470	30,900	5,300	------	1,390	1,520	11,600	535	120	113	66
30	380	6,820	13,200	15,400	------	1,270	1,390	5,980	422	117	100	68
31	2,360	------	6,100	14,400	------	1,210	------	8,320	------	120	96	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,360	196	462	0.367	0.42
November	17,700	340	3,250	2.58	2.88
December	57,100	1,270	13,300	10.55	12.16
January	15,400	795	3,120	2.48	2.86
February	28,500	2,010	5,840	4.64	4.83
March	18,600	1,210	4,660	3.70	4.27
April	12,800	1,390	3,960	3.14	3.50
May	11,600	445	1,910	1.52	1.75
June	8,710	422	1,950	1.55	1.73
July	468	117	263	.209	.24
August	1,390	96	242	.192	.22
September	490	53	108	.086	.10
The year	57,100	53	3,240	2.57	34.96

OBEY RIVER NEAR BYRDSTOWN,[1] TENN.

LOCATION.—Chain gage on highway bridge on Livingston-Byrdstown Road 1½ miles above Eagle Creek and 3½ miles southwest of Byrdstown, Pickett County. Elevation of zero of gage is 575.23 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—52 square miles (revised).

RECORDS AVAILABLE.—March, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 23,800 second-feet December 22 (gage height, 28.8 feet); minimum, 31 second-feet September 27 and 29 (gage height, 1.34 feet).

1919–1927: Maximum discharge, about 30,700 second-feet March 2, 1922 (gage height, 35.65 feet); minimum, 7 second-feet November 3, 1920 (gage height, 0.90 foot).

REMARKS.—Records good below 15,000 second-feet and fair to poor for higher stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	110	458	2,100	1,790	2,500	870	1,310	435	2,170	179	76	66
2	105	370	1,430	1,310	1,850	820	1,980	370	1,370	164	140	61
3	95	270	1,090	1,090	1,490	770	1,430	330	1,610	152	170	56
4	86	221	820	925	1,430	820	1,140	310	2,910	132	100	55
5	90	188	670	770	1,980	870	980	290	1,670	98	92	50
6	188	143	570	670	1,790	1,090	1,090	390	1,090	105	72	52
7	132	143	480	570	3,840	1,200	1,040	458	870	100	76	44
8	125	128	435	602	2,700	8,100	925	412	720	140	70	58
9	100	595	4,480	480	1,910	4,400	1,430	330	570	90	1,670	78
10	90	1,090	11,600	435	1,370	4,880	1,670	290	458	102	1,310	67
11	120	595	3,540	390	1,090	2,840	1,670	270	390	98	645	76
12	108	570	1,980	350	925	1,910	1,430	390	350	95	390	68
13	98	435	3,120	330	925	1,430	1,260	412	252	82	214	52
14	95	350	2,700	290	1,490	1,610	1,430	435	620	84	194	49
15	82	435	1,790	458	1,430	1,850	1,140	435	620	86	170	46
16	80	4,720	1,260	370	1,260	1,430	925	390	458	167	370	43
17	179	1,910	980	330	1,040	1,200	1,550	350	350	188	270	37
18	95	1,310	770	390	2,300	925	1,610	290	412	170	670	38
19	76	1,090	645	435	4,480	1,310	1,670	270	1,610	185	980	135
20	86	820	570	435	2,500	1,430	1,310	235	980	164	570	88
21	95	670	13,100	645	1,670	1,310	1,260	214	720	110	390	52
22	78	570	20,700	925	1,370	1,090	1,200	310	770	90	252	37
23	70	480	5,040	1,040	4,160	980	1,140	235	820	108	194	37
24	230	435	7,190	1,910	6,470	870	980	235	870	152	132	36
25	390	390	20,400	1,850	1,770	980	870	350	595	115	130	36
26	350	3,540	18,400	1,430	1,850	925	720	330	480	90	105	34
27	270	4,960	5,040	1,140	1,310	870	645	290	412	74	102	31
28	200	2,040	4,400	925	1,040	720	570	1,260	310	74	80	32
29	161	1,370	14,500	1,980	-------	645	602	4,320	252	61	78	31
30	135	2,500	4,480	3,190	-------	595	602	3,920	214	61	76	49
31	870	-------	2,560	4,400	-------	548	-------	4,080	-------	62	72	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	870	70	161	0.356	0.41
November	4,960	128	1,090	2.41	2.69
December	20,700	435	5,060	11.19	12.90
January	4,400	290	1,030	2.28	2.63
February	6,470	925	2,100	4.64	4.83
March	8,100	548	1,590	3.52	4.06
April	1,980	570	1,190	2.63	2.93
May	4,320	214	730	1.62	1.87
June	2,910	214	831	1.84	2.05
July	188	61	115	.254	.29
August	1,670	70	318	.708	.81
September	135	31	53.1	.117	.13
The year	20,700	31	1,190	2.63	35.60

[1] Formerly published as "Obey River near Boom, Tenn."

CANEY FORK NEAR ROCK ISLAND, TENN.

LOCATION.—Water-stage recorder 200 feet below power house of Tennessee Electric Power Co., half a mile downstream from storage dam and 1 mile northwest of Rock Island, Warren County. Elevation of zero of gage is 649.46 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—1,640 square miles.

RECORDS AVAILABLE.—November, 1911, to March, 1924; April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 78,900 second-feet December 25 (gage height, 20.5 feet); minimum, estimated 76 second-feet October 3, 10, and 17, represents leakage below dam when power plant was shut down.

1911–1927: Maximum discharge, 107,000 second-feet April 2, 1912 (gage height, 13.2 feet, original gage at dam site); minimum, 45 second-feet, represents leakage prior to raising of dam in 1925.

REMARKS.—Records good. Flow for most of year is almost completely regulated by dam and power house immediately above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	841	461	4,920	9,040	10,000	3,590	10,300	1,460	1,940	1,260	1,890	1,720
2	300	561	3,920	6,750	11,200	5,680	9,500	2,110	2,390	720	2,390	1,780
3	76	471	3,540	5,120	10,900	4,550	6,810	1,970	1,980	156	2,240	1,360
4	514	880	2,580	4,570	7,710	4,940	3,390	2,910	1,080	145	2,020	138
5	587	1,120	2,000	3,940	6,390	4,310	6,420	2,540	175	730	2,170	204
6	571	482	2,870	3,370	6,390	4,840	7,930	4,170	1,380	656	1,720	528
7	645	90	2,670	3,150	6,930	5,420	7,770	5,600	1,040	534	880	396
8	589	1,120	2,640	3,050	7,710	14,000	5,310	2,340	1,070	508	1,480	111
9	294	1,650	2,460	2,850	6,220	18,500	5,630	3,140	978	253	1,940	108
10	76	2,100	9,650	2,380	5,420	19,000	14,700	3,090	875	140	2,280	108
11	312	2,160	6,640	2,200	4,840	11,200	21,500	2,880	469	248	1,960	104
12	545	1,850	6,600	2,650	3,820	7,510	12,800	3,000	145	413	2,110	100
13	474	1,880	15,200	2,560	8,570	6,930	13,800	3,040	443	292	1,680	97
14	398	676	13,100	2,200	12,100	15,800	9,580	4,570	402	240	311	1,050
15	332	1,840	7,320	1,950	8,800	12,700	7,140	1,980	403	290	2,170	95
16	150	2,320	6,090	1,430	6,220	9,530	5,200	2,490	365	173	2,360	93
17	76	7,150	3,430	2,470	5,730	5,730	6,780	3,090	674	270	2,320	246
18	334	3,770	3,390	2,850	8,130	4,680	4,930	3,120	672	211	1,200	216
19	407	3,830	2,590	2,850	13,700	4,970	5,730	2,360	191	217	2,100	564
20	389	3,160	3,240	3,050	9,280	4,840	5,110	1,800	1,900	310	1,700	945
21	499	3,750	17,900	3,150	8,130	4,370	5,010	1,490	2,100	354	924	1,040
22	479	2,230	30,100	9,790	7,510	3,760	4,170	370	1,980	555	2,000	926
23	255	2,160	15,300	6,750	16,100	4,260	4,470	1,660	2,010	1,040	1,580	701
24	82	2,150	25,100	9,790	22,400	2,920	3,880	1,400	1,900	413	1,580	398
25	467	968	63,200	8,130	11,200	3,170	2,230	1,450	1,520	1,110	2,060	95
26	498	2,120	57,400	7,510	7,710	3,720	2,200	2,030	566	1,510	2,210	158
27	474	5,760	23,800	5,270	5,730	3,260	2,380	1,790	1,480	1,330	1,970	152
28	473	4,610	35,700	5,270	5,420	2,830	2,360	1,330	2,230	1,130	410	156
29	478	4,080	41,600	7,920	-------	2,650	2,200	175	2,300	642	1,300	185
30	296	6,580	18,700	10,900	-------	2,030	2,020	1,350	1,840	871	1,850	324
31	82	-------	11,900	18,500	-------	4,430	-------	1,670	-------	232	1,860	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	841	76	387	0.236	0.27
November	7,150	90	2,400	1.46	1.63
December	63,200	2,000	14,400	8.78	10.12
January	18,500	1,430	5,210	3.18	3.67
February	22,400	3,820	8,720	5.32	5.54
March	19,000	2,030	6,650	4.05	4.67
April	21,500	2,020	6,710	4.09	4.56
May	5,600	175	2,330	1.42	1.64
June	2,390	145	1,220	.744	.83
July	1,510	140	547	.334	.38
August	2,390	311	1,760	1.07	1.23
September	1,780	93	470	.287	.32
The year	63,200	76	4,210	2.57	34.86

CANEY FORK NEAR SILVER POINT, TENN.

LOCATION.—Water-stage recorder at Johnsons Ferry on Silver Point-Smithville Road 4 miles south of Silver Point, Putnam County, and 4 miles below mouth of Falling Water River. Elevation of zero of gage is 497.60 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—2,100 square miles.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 115,000 second-feet December 26 (gage height, 44.5 feet); minimum, 175 second-feet September 27 (gage height, 1.00 foot).

1922–1927: Maximum discharge, that of December 26, 1926; minimum, 25 second-feet on several days in November, 1924, and August, September, and October, 1925 (gage height, 0.00 foot).

REMARKS.—Records good, except those for November 16 to December 13 and December 24–31, which were partly estimated. Discharge January 1–20 based on daily staff gage readings. Flow regulated to large extent by Great Falls hydroelectric plant at Rock Island 36 miles upstream, and to slight extent by small hydroelectric plant on Falling Water River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	350	6,970	11,100	16,100	5,570	9,430	1,970	1,820	1,920	2,720	1,670
2	1,440	485	4,520	10,400	11,100	5,430	12,300	1,820	2,120	1,440	2,560	1,870
3	1,100	652	4,000	7,270	12,000	5,710	9,590	2,280	2,560	891	2,620	1,970
4	382	594	3,380	7,270	10,800	4,910	6,270	2,340	2,280	435	2,620	1,480
5	582	919	2,280	4,780	8,320	4,910	4,390	3,020	1,180	346	2,280	425
6	765	1,140	2,280	4,390	6,970	5,430	7,270	3,140	500	751	2,340	270
7	706	616	2,670	3,500	7,270	5,170	8,170	5,990	1,180	877	1,920	616
8	694	274	2,670	3,380	8,320	10,600	6,970	3,380	1,220	1,480	1,100	506
9	658	1,770	3,260	4,260	7,270	18,800	5,990	2,840	1,140	905	2,400	310
10	475	2,230	5,990	3,260	6,130	26,000	10,200	3,380	1,060	594	3,140	242
11	263	2,500	11,300	3,260	5,430	16,900	26,700	3,260	1,020	415	2,620	217
12	400	2,230	7,420	3,380	5,040	10,600	19,600	3,140	842	425	2,450	208
13	604	1,970	12,300	3,500	5,040	8,320	15,500	3,140	490	588	2,340	205
14	555	1,920	18,400	3,260	9,750	12,700	12,700	3,740	807	475	1,870	202
15	495	1,530	11,300	3,260	11,100	17,500	9,110	2,780	821	877	744	926
16	430	3,020	7,120	2,280	8,470	11,400	7,120	2,070	634	849	2,400	278
17	298	4,000	4,650	2,230	6,410	7,720	6,550	1,970	544	646	2,500	205
18	223	6,270	4,390	3,140	6,130	7,270	6,830	3,260	1,920	988	4,390	278
19	310	4,000	3,380	3,260	12,300	5,850	6,130	3,020	1,770	628	2,400	252
20	490	2,900	2,780	3,380	12,500	5,170	5,850	2,180	758	485	2,500	744
21	465	3,260	12,500	3,620	8,630	5,710	5,570	1,970	2,120	506	1,920	972
22	544	2,340	42,300	5,170	6,410	4,390	4,780	1,530	2,620	737	1,220	1,100
23	533	2,180	35,200	9,430	9,110	4,260	4,650	544	2,450	1,140	2,120	956
24	425	2,070	23,000	8,790	28,900	3,500	4,520	1,970	2,560	1,260	1,720	779
25	391	1,970	60,000	10,800	19,000	3,500	3,740	1,670	2,180	465	1,720	588
26	538	2,230	100,000	8,470	10,600	4,130	2,500	1,720	1,620	718	2,120	226
27	616	4,780	65,000	7,720	7,720	3,380	2,670	2,020	737	1,260	2,280	184
28	628	6,690	40,000	5,850	6,130	3,380	2,720	2,020	1,720	1,350	1,920	229
29	594	4,650	60,000	6,970	------	3,140	2,620	1,440	2,230	1,260	610	242
30	610	6,270	54,000	10,100	------	2,780	2,450	522	2,400	926	1,400	260
31	550	------	22,000	15,700	------	2,720	------	1,480	------	2,280	1,870	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,440	223	576	0.274	0.32
November	6,690	274	2,530	1.20	1.34
December	100,000	2,280	20,500	9.76	11.25
January	15,700	2,230	5,910	2.81	3.24
February	28,900	5,040	9,750	4.64	4.83
March	26,000	2,720	7,640	3.64	4.20
April	26,700	2,450	7,760	3.70	4.13
May	5,990	522	2,440	1.16	1.34
June	2,620	490	1,510	.719	.80
July	2,280	346	901	.429	.49
August	4,390	610	2,160	1.03	1.19
September	1,970	184	614	.292	.33
The year	100,000	184	5,170	2.46	33.46

COLLINS RIVER NEAR McMINNVILLE, TENN.

LOCATION.—Water-stage recorder at highway bridge on McMinnville-Rock Island highway, half a mile below mouth of Barren Fork and 2½ miles northeast of McMinnville, Warren County. Prior to October 16, 1926, chain gage was used. Elevation of zero of both gages is 823.77 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—624 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 31,300 second-feet December 26 (gage height, 24.4 feet); minimum, 52 second-feet September 22–24 (gage height, 0.88 foot).

1925–1927: Maximum discharge, that of December 26, 1926; minimum, 37 second-feet September 4 and 29, 1925 (gage height, 0.8 foot).

REMARKS.—Records good. Discharge estimated November 23–26, December 4–10, January 25–30, March 6–9, April 9, 10, 19, 22, May 14, and 20–22. Considerable regulation caused by operation of power plant on Barren Fork at McMinnville.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	138	150	1,930	3,160	4,370	1,630	3,760	635	330	192	2,330	142
2	130	192	1,490	2,420	4,370	2,330	3,160	610	312	180	760	150
3	116	265	1,160	2,010	4,260	2,010	2,170	565	312	192	500	180
4	108	148	980	1,700	3,160	1,770	1,700	520	295	265	542	172
5	114	122	815	1,490	2,600	1,770	1,850	520	312	265	440	150
6	152	145	660	1,280	2,170	1,850	3,260	2,330	295	205	348	152
7	265	110	635	1,100	2,420	2,090	2,510	1,420	280	180	295	140
8	220	152	542	980	2,420	4,920	2,010	1,100	250	165	265	128
9	158	295	1,220	925	2,090	7,270	2,090	870	265	145	382	126
10	78	760	3,760	870	1,850	7,400	4,480	815	250	130	635	132
11	74	760	3,060	815	1,700	4,370	9,820	925	250	165	542	126
12	78	500	2,170	760	1,630	3,060	6,180	710	295	135	660	135
13	120	420	5,470	660	2,420	2,780	7,020	588	400	130	440	124
14	108	295	5,360	710	4,370	5,940	4,810	710	400	130	348	106
15	68	542	3,260	710	3,360	5,140	3,260	660	400	132	440	104
16	72	3,460	2,090	660	2,420	5,360	2,600	565	460	140	348	106
17	72	2,510	1,560	610	2,010	2,510	2,870	480	520	170	295	100
18	116	1,490	1,280	588	2,960	2,010	2,170	440	480	250	660	118
19	120	1,280	1,040	610	4,590	2,250	1,770	420	400	170	520	98
20	112	1,040	925	660	3,360	1,930	1,490	400	400	140	382	96
21	106	870	3,260	2,600	2,510	1,700	1,350	440	365	145	312	98
22	108	760	9,820	4,590	2,010	1,560	1,280	382	348	235	265	96
23	90	588	5,700	2,870	5,360	1,280	1,220	365	460	400	220	94
24	84	520	6,900	4,260	8,840	1,220	1,100	348	635	220	192	86
25	140	480	24,500	3,460	4,370	1,280	980	400	500	170	192	100
26	110	660	27,700	2,780	3,060	1,100	870	420	382	162	175	90
27	116	2,170	11,900	2,510	2,420	1,040	815	400	330	132	160	92
28	122	1,930	12,000	2,250	1,930	925	760	382	280	130	160	104
29	118	1,420	20,700	2,960	------	870	710	420	250	160	162	104
30	118	2,170	7,530	3,660	------	815	660	420	235	295	158	100
31	106	------	4,260	6,660	------	1,220	------	365	------	710	145	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	265	68	117	0.187	0.22
November	3,460	110	873	1.40	1.56
December	27,700	542	5,600	8.97	10.34
January	6,660	588	1,980	3.17	3.66
February	8,840	1,630	3,180	5.10	5.31
March	7,400	815	2,560	4.10	4.73
April	9,820	660	2,620	4.20	4.69
May	2,330	348	633	1.01	1.16
June	635	235	356	.571	.64
July	710	130	201	.322	.37
August	2,330	145	428	.686	.79
September	180	86	118	.189	.21
The year	27,700	68	1,550	2.48	33.68

STONE RIVER NEAR SMYRNA, TENN.

LOCATION.—Water-stage recorder at highway bridge at Jefferson Springs three-fourths mile below confluence of East and West Forks and 5 miles east of Smyrna, Rutherford County. Elevation of zero of gage is 457.78 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—552 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 26,000 second-feet December 28 (gage height, 25.95 feet); minimum mean daily discharge, 17 second-feet September 25 and 30 (gage height, 0.91 foot).

1925–1927: Maximum discharge, that of December 28, 1926; minimum, 0.8 second-foot August 17 and 22, 1925 (gage height, 0.50 foot).

REMARKS.—Records good between 600 and 10,000 second-feet; fair to poor for higher and lower stages. Discharge based on staff gage readings October 6–26, August 22–26, and September 3–30. Flow almost entirely regulated during low-water periods by power developments upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	666	2,170	2,120	2,270	1,040	5,580	523	161	90	1,150	109
2	158	430	1,520	1,740	4,260	2,720	2,940	480	121	385	350	88
3	642	300	1,190	1,520	3,490	1,830	1,700	370	118	1,560	241	85
4	318	238	965	1,310	2,420	1,470	1,310	355	173	456	173	72
5	744	203	811	1,150	1,830	1,270	1,190	738	118	406	286	50
6	1,470	192	692	1,000	1,520	1,110	1,520	5,580	145	201	286	40
7	725	140	600	874	1,740	1,650	1,070	1,740	125	223	133	45
8	594	192	534	790	1,520	6,350	930	1,150	108	250	118	45
9	501	3,930	2,720	725	1,270	5,360	818	829	90	161	2,220	48
10	450	1,700	3,820	673	1,040	3,600	6,680	682	90	181	2,020	48
11	430	1,000	2,020	648	930	2,420	7,780	759	118	141	988	48
12	380	738	1,700	589	867	1,780	4,370	523	108	133	1,560	45
13	331	594	5,360	506	1,230	4,920	5,250	474	689	104	627	42
14	290	512	2,420	562	1,600	5,690	3,160	972	480	108	416	40
15	246	2,470	1,650	523	1,270	2,830	2,620	682	444	58	351	40
16	206	2,520	1,230	415	1,040	2,020	2,620	486	295	84	238	42
17	168	1,350	1,000	496	916	1,560	2,940	406	264	100	178	42
18	131	1,470	860	385	1,920	1,390	1,880	286	380	97	1,350	45
19	98	1,230	725	485	2,940	3,490	1,430	277	375	97	710	45
20	86	930	860	390	1,780	1,830	1,700	264	241	94	421	42
21	68	764	15,600	1,920	1,390	1,650	1,780	340	181	75	310	35
22	55	648	10,900	2,320	1,390	1,430	1,390	185	104	55	168	27
23	75	556	3,930	2,020	4,920	1,190	1,110	201	232	145	150	19
24	125	490	13,500	4,480	4,040	1,150	930	173	241	177	168	19
25	189	450	24,500	2,720	2,320	1,150	811	185	335	63	150	17
26	238	5,140	11,300	2,120	1,700	930	725	111	177	55	150	19
27	168	3,160	4,700	1,740	1,350	804	618	157	122	45	112	19
28	164	1,700	15,300	1,470	1,070	699	562	133	141	45	85	19
29	122	4,040	13,100	2,220	-------	624	518	141	84	60	85	19
30	147	4,370	4,040	2,220	-------	594	501	232	78	48	109	17
31	660	-------	2,830	4,040	-------	2,830	-------	125	-------	205	112	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,470	55	326	0.591	0.68
November	5,140	140	1,400	2.54	2.83
December	24,500	534	4,920	8.91	10.27
January	4,480	385	1,420	2.57	2.96
February	4,920	867	1,930	3.50	3.64
March	6,350	594	2,170	3.93	4.53
April	7,780	501	2,210	4.00	4.46
May	5,580	111	631	1.14	1.31
June	689	78	211	.382	.43
July	1,560	45	190	.344	.40
August	2,220	85	497	.900	1.04
September	109	17	42.4	.077	.09
The year	24,500	17	1,330	2.41	32.64

HARPETH RIVER AT BELLEVIEW, TENN.

LOCATION.—Staff gage at highway bridge on Harding Pike a quarter of a mile south of Belleview, Davidson County. Prior to August 25, 1927, a chain gage at same site was used. Datum unchanged.

DRAINAGE AREA.—410 square miles.

RECORDS AVAILABLE.—April, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 22,100 second-feet March 13 (gage height, 21.7 feet); minimum, 7 second-feet September 21 and 22 (gage height, −0.66 foot).

1920–1927: Maximum discharge, that of March 13, 1927; no flow several days in October, 1922.

REMARKS.—Records fair below 13,000 second-feet; for higher stages poor. Discharge interpolated November 25, December 23, January 1, 29, March 19, April 9, June 9, 17, September 4, and 5.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	490	1,540	2,710	1,360	760	2,200	505	114	72	18	12
2	59	305	1,240	1,660	2,380	810	1,360	488	162	68	20	13
3	75	288	1,020	1,300	2,200	965	1,020	382	142	64	18	13
4	82	255	910	1,130	1,600	910	860	290	132	57	35	14
5	270	240	760	810	1,480	810	810	290	128	46	38	16
6	450	210	620	665	1,960	760	810	6,210	114	35	40	18
7	132	186	450	620	1,780	965	620	1,180	100	35	40	20
8	82	155	375	575	1,420	6,480	540	965	102	40	26	14
9	75	1,300	2,140	510	1,180	3,340	5,200	760	94	60	1,020	13
10	108	1,080	2,320	470	1,020	2,320	9,800	620	80	50	220	12
11	490	665	1,180	430	860	2,260	14,000	580	78	40	150	12
12	240	575	2,380	392	710	2,260	4,310	505	74	33	92	12
13	340	530	3,410	392	760	18,300	6,660	470	60	28	57	13
14	152	490	2,320	375	860	14,800	4,150	505	74	26	46	13
15	89	2,500	1,130	358	710	3,130	2,710	488	66	25	76	12
16	84	1,900	810	322	620	2,320	2,780	452	84	60	45	10
17	80	1,080	810	305	575	1,600	1,780	435	152	68	48	9
18	73	1,540	810	322	710	1,960	1,360	382	220	60	36	9
19	67	1,020	810	288	1,480	1,840	910	290	208	28	42	8
20	54	910	2,850	860	665	1,720	5,850	260	125	23	26	7
21	54	1,300	12,800	1,480	620	1,660	3,620	232	104	23	26	7
22	46	1,080	13,500	1,020	710	1,600	2,500	208	760	20	22	7
23	43	490	10,900	1,130	1,240	1,360	2,140	182	470	18	20	7
24	63	470	8,370	1,540	2,200	1,020	1,900	208	245	18	22	7
25	73	860	16,100	1,720	1,540	910	1,360	168	208	17	17	7
26	77	1,240	14,600	1,480	1,080	620	665	158	182	20	15	9
27	63	2,140	3,990	1,130	965	620	620	142	125	20	15	12
28	54	1,360	6,750	510	860	620	540	138	108	17	14	15
29	54	2,020	11,600	1,000	-------	540	488	138	80	15	13	18
30	54	2,140	2,920	1,480	-------	505	860	122	72	15	13	21
31	860	-------	3,760	1,420	-------	2,200	-------	118	-------	17	12	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	860	43	145	0.354	0.41
November	2,500	155	961	2.34	2.61
December	14,600	375	4,300	10.49	12.10
January	2,710	288	916	2.24	2.58
February	2,380	575	1,200	2.92	3.04
March	18,300	505	2,580	6.30	7.26
April	14,000	488	2,750	6.71	7.49
May	6,210	118	576	1.41	1.63
June	760	66	156	.380	.42
July	72	15	36.1	.088	.10
August	1,020	12	73.6	.180	.21
September	21	7	12.0	.029	.03
The year	18,300	7	1,140	2.78	37.88

HARPETH RIVER NEAR KINGSTON SPRINGS, TENN.

LOCATION.—Staff gage at bridge on State Highway No. 1, 3 miles north of Kingston Springs, Cheatham County, and 3 miles below mouth of Turnbull Creek. Elevation of zero of gage is 445.81 feet (U. S. Engineer Department datum of 1889).

DRAINAGE AREA.—687 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 32,500 second-feet March 13 (gage height, about 28.0 feet); minimum, 30 second-feet September 18.

1925–1927: Maximum discharge, that of March 13, 1927; minimum, 18 second-feet September 9 and 10, 1925.

REMARKS.—Records fair between 50 and 10,000 second-feet; others poor. Discharge partly estimated December 21, March 13, 14, April 10, and 20. Slight regulation during low-water season caused by operation of milldam at Newsom 15 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	1,040	2,250	2,610	1,840	1,100	4,390	1,160	262	159	92	60
2	112	690	1,760	1,920	3,370	1,600	2,790	910	300	142	72	58
3	92	1,170	1,310	1,760	3,170	1,450	1,720	805	342	168	68	105
4	82	412	860	1,450	2,430	1,310	1,160	680	365	180	248	62
5	390	310	800	1,310	1,920	1,170	1,400	1,560	435	162	162	66
6	435	275	690	1,100	2,250	1,100	1,400	6,640	245	125	118	70
7	330	240	608	1,040	2,610	2,970	1,090	2,610	210	100	108	54
8	165	240	580	920	2,340	8,440	1,090	1,720	201	192	120	54
9	140	980	3,770	800	1,840	5,600	945	1,240	189	171	1,980	57
10	118	1,450	4,170	800	1,450	5,050	13,600	1,560	171	183	740	54
11	130	860	2,000	745	1,240	2,970	13,800	1,240	153	153	365	48
12	145	635	2,000	635	1,170	2,250	8,440	910	300	115	228	50
13	662	530	5,050	608	1,240	27,200	9,280	650	228	90	174	46
14	370	435	2,880	690	1,310	20,500	6,400	1,640	189	74	145	42
15	240	5,710	1,760	608	1,240	4,070	3,770	1,240	189	66	156	40
16	171	3,570	1,380	580	1,040	3,170	3,970	740	177	186	140	38
17	156	1,760	1,240	480	980	2,430	3,370	650	210	204	112	31
18	122	3,570	980	530	3,170	2,430	2,610	620	620	112	177	30
19	112	1,920	745	530	3,870	6,160	1,560	538	435	96	125	51
20	102	1,450	14,800	2,340	2,160	3,570	11,200	510	342	84	98	40
21	94	1,040	27,000	3,270	1,680	3,170	8,320	485	342	68	90	38
22	90	860	19,000	2,340	1,450	2,610	3,770	435	592	54	86	34
23	86	690	15,100	3,570	2,160	1,980	2,250	410	1,400	57	78	33
24	100	608	11,300	3,570	5,160	1,720	1,890	388	565	68	80	33
25	156	580	18,200	2,970	2,250	1,400	1,640	342	435	56	76	40
26	148	2,160	18,700	2,250	1,760	1,240	1,480	320	320	44	72	42
27	142	2,790	7,960	1,760	1,450	1,160	1,240	300	262	50	64	45
28	130	1,450	10,200	1,450	1,170	945	1,090	280	228	54	64	76
29	118	2,160	9,520	1,450	-------	840	1,020	262	189	50	66	70
30	108	4,390	4,610	2,340	-------	772	1,560	245	171	42	66	76
31	3,870	-------	3,270	2,340	-------	1,980	-------	245	-------	68	66	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,870	82	298	0.434	0.50
November	5,710	240	1,470	2.14	2.39
December	27,000	580	6,270	9.13	10.53
January	3,570	480	1,570	2.29	2.64
February	5,160	980	2,060	3.00	3.12
March	27,200	772	3,950	5.75	6.63
April	13,800	945	3,940	5.75	6.42
May	6,640	245	1,010	1.47	1.70
June	1,400	153	336	.489	.55
July	204	42	109	.159	.18
August	1,980	64	201	.293	.34
September	105	30	51.4	.075	.08
The year	27,200	30	1,770	2.58	35.08

TURNBULL CREEK AT KINGSTON SPRINGS, TENN.

LOCATION.—Staff gage at Nashville, Chattanooga & St. Louis Railroad bridge 500 feet above mouth of creek, and three-fourths mile west of Kingston Springs, Cheatham County.

DRAINAGE AREA.—123 square miles.

RECORDS AVAILABLE.—March, 1926, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, not determined; maximum gage height, about 21 feet December 21; minimum discharge, 24 second-feet September 18 (gage height, 0.80 foot).

1926–27: Maximum discharge, not determined; maximum gage height, that of December 21, 1926; minimum discharge, 23 second-feet July 22–24, 1926 (gage height, 0.78 foot).

REMARKS.—Records good below 500 second-feet; higher discharge not computed because of probable backwater effect.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	156	390	390	390	161	------	270	87	50	50	28
2	38	121	195	290	------	175	490	195	90	48	34	28
3	30	80	161	213	------	161	290	168	97	52	45	45
4	29	59	134	181	440	161	231	156	77	48	71	34
5	490	59	134	161	310	156	290	139	63	43	69	31
6	54	56	101	139	------	161	195	------	59	41	43	30
7	35	52	90	130	------	------	168	------	56	43	41	29
8	34	52	93	116	------	------	188	490	52	74	50	29
9	33	134	------	101	390	------	168	440	52	45	240	28
10	43	93	------	93	290	------	------	340	52	43	71	35
11	63	77	390	87	240	------	------	290	50	41	59	31
12	38	69	340	83	231	465	------	204	87	38	45	29
13	93	61	------	83	231	------	------	168	61	37	41	28
14	54	61	------	93	195	------	------	340	59	37	45	27
15	54	------	300	87	168	------	------	213	59	35	45	43
16	43	71	213	77	156	------	------	168	50	56	38	26
17	35	56	161	77	150	365	------	156	104	45	31	25
18	34	------	134	80	------	------	------	130	195	40	83	24
19	31	310	121	------	------	------	------	112	134	37	43	30
20	31	195	130	------	------	------	------	101	97	35	37	30
21	30	156	------	------	290	------	------	93	93	34	35	31
22	30	134	------	------	240	------	------	93	104	34	34	27
23	29	116	------	------	490	415	------	90	101	37	31	27
24	35	93	------	------	------	340	------	87	97	35	31	27
25	61	90	------	------	280	240	490	87	74	33	33	27
26	45	------	------	490	195	213	415	69	66	33	30	27
27	40	------	------	340	168	188	340	69	59	31	30	27
28	37	195	------	390	134	156	290	69	56	33	30	45
29	35	------	------	290	------	134	204	63	52	33	30	54
30	35	------	------	------	------	130	310	61	50	33	29	34
31	440	------	------	490	------	------	------	59	------	161	29	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	490	28	67.7	0.550	0.63
November	----------	52	----------	----------	----------
December	----------	90	----------	----------	----------
January	----------	77	----------	----------	----------
February	----------	134	----------	----------	----------
March	----------	130	----------	----------	----------
April	----------	168	----------	----------	----------
May	----------	59	----------	----------	----------
June	195	50	77.8	.633	.71
July	161	31	44.7	.363	.42
August	240	29	49.1	.399	.46
September	54	24	31.2	.254	.28
The year	----------	24	----------	----------	----------

RED RIVER NEAR ADAMS, TENN.

LOCATION.—Water-stage recorder at highway bridge half a mile below mouth of Elk Creek and 1½ miles north of Adams, Robertson County. Chain gage at same site used prior to October 8, 1926. Elevation of zero of both gages is 396.32 feet (United States Engineer Department datum of 1889).

DRAINAGE AREA.—678 square miles.

RECORDS AVAILABLE.—June, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 20,800 second-feet December 22 (gage height, 31.0 feet); minimum, 62 second-feet September 27 (gage height, 1.55 feet).

1920–1927: Maximum discharge, that of December 22, 1926; minimum, 23 second-feet September 10, 1925 (gage height, 1.28 feet).

REMARKS.—Records good below 13,000 second-feet and fair to poor for higher stages. Discharge December 20–25, 27–31, January 1, 3, 4, and 18 determined from chain-gage readings; discharge interpolated December 19, 26, January 2, and 13–17.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	198	2,480	2,200	3,860	2,990	1,080	5,100	2,200	820	365	466	98
2	162	1,720	1,900	3,390	2,990	1,040	3,940	1,360	1,180	412	301	98
3	141	1,400	1,650	2,920	2,850	1,040	2,780	1,180	5,240	466	192	100
4	138	1,180	1,470	2,630	2,630	1,040	2,340	1,400	5,240	470	180	90
5	2,480	1,010	1,320	2,340	2,480	1,110	2,560	1,320	2,920	385	180	90
6	1,760	850	1,180	2,050	2,340	1,180	2,920	2,050	2,050	349	171	94
7	880	790	1,040	1,900	2,480	1,470	2,120	2,050	1,690	353	162	100
8	585	735	942	1,760	2,340	5,960	2,340	1,540	1,400	762	159	90
9	505	820	1,470	1,620	2,120	4,080	2,630	1,250	1,180	457	790	90
10	850	1,040	2,990	1,540	1,900	3,060	3,210	1,760	1,040	357	575	128
11	2,200	820	2,050	1,430	1,800	2,480	4,730	2,050	942	325	325	128
12	1,400	724	1,830	1,320	1,690	2,200	3,210	1,290	850	297	248	92
13	3,360	680	3,060	1,300	1,690	10,900	3,790	1,110	762	269	209	102
14	2,340	625	2,480	1,250	1,800	15,200	5,820	1,900	1,180	262	189	96
15	1,540	3,430	1,900	1,200	1,720	6,910	5,600	1,760	850	248	183	88
16	1,140	5,380	1,580	1,150	1,540	4,300	5,680	1,250	724	345	171	82
17	942	2,920	1,360	1,100	1,510	3,430	5,960	1,040	658	565	159	94
18	790	2,990	1,250	1,040	2,850	4,080	3,940	942	1,220	408	240	88
19	642	2,560	1,180	1,080	3,790	7,920	3,140	880	1,290	313	273	106
20	595	2,050	1,110	3,570	2,920	8,060	2,630	820	790	265	202	104
21	575	1,760	13,400	12,000	2,410	13,000	2,480	762	702	244	162	102
22	485	1,540	20,800	12,500	2,050	9,000	2,700	686	820	244	141	86
23	452	1,400	11,800	9,370	1,980	5,380	2,200	664	686	297	138	78
24	718	1,250	11,300	7,920	1,760	4,300	1,900	658	580	265	135	86
25	1,620	1,360	13,100	6,040	1,540	3,570	1,720	708	525	230	128	68
26	1,140	2,120	10,500	4,800	1,400	2,990	1,620	605	485	202	130	70
27	880	2,990	7,990	3,860	1,250	2,630	1,470	560	448	192	120	72
28	735	2,200	7,780	3,360	1,140	2,270	1,360	1,540	426	171	112	120
29	664	2,200	10,100	3,210	------	2,050	1,250	1,830	408	189	106	209
30	850	2,560	5,750	3,500	------	1,900	2,200	975	390	183	102	390
31	3,060	------	4,660	3,640	------	2,120	------	762	------	345	104	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,360	138	1,090	1.61	1.86
November	5,380	625	1,790	2.64	2.94
December	20,800	942	4,880	7.20	8.30
January	12,500	1,040	3,500	5.16	5.95
February	3,790	1,140	2,140	3.16	3.29
March	15,200	1,040	4,380	6.46	7.45
April	5,960	1,250	3,110	4.59	5.12
May	2,200	560	1,250	1.84	2.12
June	5,240	390	1,250	1.84	2.05
July	762	171	330	.487	.56
August	790	102	218	.321	.37
September	390	68	108	.159	.18
The year	20,800	68	2,010	2.96	40.19

TENNESSEE RIVER BASIN

FRENCH BROAD RIVER AT CALVERT, N. C.

LOCATION.—Staff gage at township bridge 1 mile downstream from East Fork and 1 mile southeast of railroad station at Calvert, Transylvania County.
DRAINAGE AREA.—104 square miles.
RECORDS AVAILABLE.—October, 1924, to September, 1927.
EXTREMES.—Maximum discharge during year, 1,660 second-feet November 9 (gage height, 3.40 feet); minimum, 97 second-feet September 28 and 30 (gage height, 0.58 foot).

1924–1927: Maximum discharge 5,570 second-feet December 8, 1924, and January 18, 1926 (gage height, 8.10 feet); minimum, 54 second-feet September 17–23, 1925 (gage height, 0.28 foot).

Maximum stage known, 18.3 feet July, 1916.
REMARKS.—Records below 1,500 second-feet, good; others, fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	133	274	516	261	296	328	253	210	153	170	167
2	142	128	265	487	248	300	300	240	193	153	150	137
3	137	124	257	459	248	282	282	233	183	148	135	137
4	133	119	253	404	233	310	274	225	180	148	177	133
5	167	115	248	378	233	328	265	225	170	142	159	128
6	140	115	233	353	233	353	265	229	162	137	137	196
7	128	115	225	353	229	310	257	218	222	137	137	128
8	124	115	225	353	225	694	248	218	177	170	137	229
9	119	1,160	229	328	218	910	305	218	170	218	135	150
10	115	261	229	305	218	604	278	229	183	173	142	167
11	124	200	214	282	218	516	261	214	177	214	203	162
12	115	180	240	300	218	516	257	196	225	170	248	142
13	236	162	545	291	574	516	248	196	193	159	186	128
14	150	183	378	404	404	756	233	196	193	162	170	133
15	137	404	353	328	310	545	233	193	225	153	177	124
16	218	848	300	300	274	487	265	190	214	193	148	115
17	153	545	291	291	269	459	233	183	214	170	142	115
18	130	910	274	274	261	404	233	183	431	265	177	115
19	124	574	265	265	287	404	378	177	278	200	137	124
20	124	431	257	265	319	378	305	203	218	177	133	121
21	115	378	257	265	274	378	459	180	193	162	128	110
22	115	353	328	257	265	378	516	177	296	173	124	106
23	119	314	265	248	664	353	353	177	253	193	115	104
24	274	296	305	248	431	378	328	170	210	173	115	104
25	173	269	1,100	248	353	353	305	164	196	150	115	104
26	142	516	1,100	278	353	353	296	164	196	225	115	104
27	135	404	848	269	314	328	282	159	190	190	145	104
28	128	353	786	287	296	314	265	167	164	162	142	97
29	126	319	910	328	------	300	257	353	159	190	111	104
30	126	305	725	282	------	305	269	604	153	180	121	100
31	164	------	604	269	------	323	------	225	------	173	431	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	274	115	144	1.38	1.59
November	1,160	115	344	3.31	3.69
December	1,100	214	412	3.96	4.56
January	516	248	320	3.08	3.55
February	664	218	301	2.89	3.01
March	910	282	424	4.07	4.69
April	516	233	293	2.81	3.14
May	604	159	218	2.10	2.42
June	431	153	208	2.00	2.23
July	265	137	175	1.68	1.94
August	431	111	157	1.51	1.74
September	229	97	130	1.25	1.40
The year	1,160	97	260	2.50	33.96

FRENCH BROAD RIVER AT BLANTYRE, N. C.

LOCATION.—Chain gage at highway bridge 700 feet east of Blantyre railroad station, Transylvania County, and 3 miles downstream from Little River.

DRAINAGE AREA.—296 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,700 second-feet November 16 (gage height, 13.20 feet); minimum, 242 second-feet September 27–30 (gage height, 2.96 feet).

1920–1927: Maximum discharge, 6,000 second-feet May 30, 1923 (gage height, 15.95 feet); minimum, 143 second-feet September 21, 1925 (gage height, 1.83 feet).

REMARKS.—Records below 5,000 second-feet, good; others, fair. Slight diurnal fluctuation during low-water periods probably caused by operation of small mills on tributaries.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	433	411	755	1,360	651	809	809	729	525	371	433	651
2	477	391	703	1,200	651	836	755	651	501	352	371	391
3	433	352	677	1,100	625	836	729	625	501	391	352	391
4	391	352	651	1,040	600	755	703	625	433	391	371	501
5	391	352	625	980	600	782	703	600	391	455	455	391
6	433	333	600	920	600	892	677	600	391	371	371	525
7	391	333	575	864	575	950	677	575	501	333	352	433
8	352	333	550	809	575	1,660	625	575	525	352	333	391
9	333	755	575	809	575	1,730	729	575	433	809	333	433
10	333	892	575	782	600	2,190	703	575	455	782	352	433
11	352	625	550	729	550	1,560	677	550	433	1,040	525	411
12	352	501	525	651	550	1,330	651	525	501	550	677	371
13	433	477	1,230	703	782	1,430	625	525	525	477	501	333
14	501	477	1,040	920	1,260	1,590	625	501	433	677	433	314
15	391	600	892	755	864	1,460	600	501	501	525	433	314
16	371	3,310	892	600	755	1,260	625	477	525	1,010	391	295
17	525	2,080	755	729	729	1,130	625	455	477	782	411	295
18	411	1,870	703	677	677	1,070	575	455	729	980	477	277
19	371	1,630	677	677	755	1,010	1,040	433	755	1,300	455	314
20	352	1,200	625	677	892	950	809	455	550	892	371	314
21	333	1,010	651	677	782	920	782	477	477	575	352	277
22	333	864	703	651	729	1,010	1,660	455	525	729	333	259
23	333	782	651	625	1,170	920	1,070	455	600	651	314	259
24	525	755	677	625	1,400	892	892	477	550	525	295	259
25	411	703	575	600	1,070	920	809	477	525	477	295	242
26	371	1,010	3,150	625	980	920	782	477	477	501	314	242
27	352	1,360	2,190	755	864	864	729	411	455	575	371	242
28	333	950	1,870	651	809	809	703	391	411	433	411	242
29	333	836	3,070	809	-------	782	677	411	411	411	314	242
30	333	809	1,980	729	-------	782	703	651	371	477	314	242
31	371	-------	1,630	703	-------	782	-------	755	-------	391	755	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	525	333	389	1.31	1.51
November	3,310	333	878	2.97	3.31
December	3,150	525	1,010	3.41	3.93
January	1,360	600	788	2.66	3.07
February	1,400	550	774	2.61	2.72
March	2,190	755	1,090	3.68	4.24
April	1,660	575	759	2.56	2.86
May	755	391	530	1.79	2.06
June	755	371	496	1.68	1.87
July	1,300	333	600	2.03	2.34
August	755	295	402	1.36	1.57
September	651	242	343	1.16	1.29
The year	3,310	242	671	2.27	30.77

FRENCH BROAD RIVER AT ASHEVILLE, N. C.

LOCATION.—Chain gage at Bingham School Bridge, 2¼ miles downstream from Southern Railway station at Asheville, Buncombe County.

DRAINAGE AREA.—949 square miles.

RECORDS AVAILABLE.—September, 1895, to December, 1901; January, 1905, to September, 1927. Records January, 1905, to September, 1922, were obtained at Smiths Bridge 1½ miles upstream.

EXTREMES.—Maximum discharge during year, 8,720 second-feet November 16 (gage height, 5.00 feet); minimum, 560 second-feet October 23 (gage height, 0.60 foot).

1895–1901, 1905–1927: Maximum discharge, estimated 110,000 second-feet July 16, 1916 (gage height, 23.1 feet); minimum, 279 second-feet in August and September, 1925 (gage height, 0.16 foot).

REMARKS.—Records good. Slight diurnal fluctuation caused by operation of mills on tributaries. Slight diversion for water supply from North Fork of Swannanoa River, Beetree Creek, and North Fork of Mills River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	700	632	1,540	2,850	1,410	1,900	1,680	1,680	1,410	805	1,100	1,410
2	805	632	1,340	2,510	1,410	1,680	1,610	1,480	1,220	750	918	1,160
3	805	614	1,280	2,350	1,280	1,750	1,480	1,410	1,160	750	805	1,220
4	750	614	1,280	2,040	1,280	1,610	1,480	1,340	1,100	805	750	975
5	700	596	1,220	2,190	1,220	1,750	1,410	1,280	975	805	860	975
6	750	587	1,160	1,750	1,220	2,040	1,410	1,220	918	860	860	975
7	750	578	1,100	1,680	1,160	2,350	1,410	1,220	1,100	805	750	1,040
8	632	578	1,100	1,540	1,220	2,680	1,340	1,220	1,160	750	918	975
9	605	860	1,160	1,540	1,160	5,200	1,410	1,220	1,040	975	1,100	1,220
10	578	1,680	1,160	1,480	1,160	5,420	1,540	1,220	975	1,220	918	1,280
11	596	1,160	1,160	1,410	1,160	4,990	1,480	1,160	975	1,610	1,160	1,100
12	614	918	1,100	1,280	1,280	3,210	1,410	1,100	918	1,410	1,750	918
13	750	860	1,220	1,540	1,280	2,850	1,410	1,100	1,680	1,220	1,610	860
14	860	805	1,750	1,480	1,160	3,390	1,340	1,100	1,410	1,340	1,100	750
15	805	1,100	1,900	1,540	2,040	3,210	1,340	1,040	1,480	1,480	975	700
16	805	7,730	1,750	1,540	1,610	2,680	1,340	1,040	1,480	2,510	918	700
17	860	5,200	1,540	1,750	1,480	2,350	1,340	1,040	1,220	1,680	1,160	641
18	805	3,390	1,410	1,410	1,410	2,190	1,280	975	1,750	1,540	1,540	632
19	650	3,390	1,280	1,340	1,480	2,190	1,480	918	2,040	2,680	1,160	623
20	632	3,210	1,280	1,340	2,680	2,040	1,680	860	1,480	1,610	1,040	860
21	605	1,900	1,220	1,280	2,040	2,040	1,410	860	1,220	1,410	918	700
22	578	1,680	1,340	1,280	1,750	2,040	3,580	918	1,160	1,900	805	650
23	560	1,480	1,340	1,280	3,210	1,750	2,680	918	1,410	1,680	750	623
24	650	1,340	1,280	1,280	4,170	1,750	2,040	1,040	1,410	1,280	805	918
25	1,160	1,280	1,750	1,220	2,680	1,900	1,750	1,040	1,280	1,100	918	605
26	975	1,410	5,860	1,220	2,350	1,750	1,680	1,040	1,100	975	750	605
27	750	2,680	4,570	1,280	2,040	1,750	1,610	918	1,040	1,160	805	596
28	700	2,190	4,990	1,340	1,900	1,610	1,480	860	975	1,040	860	587
29	650	1,680	6,550	1,480	-------	1,610	1,480	1,280	860	1,040	860	587
30	632	1,610	4,570	1,540	-------	1,610	1,540	1,750	860	975	805	632
31	632	-------	3,390	1,480	-------	1,610	-------	1,610	-------	918	1,410	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,160	560	721	0.760	0.88
November	7,730	578	1,750	1.84	2.05
December	6,550	1,100	2,050	2.16	2.49
January	2,850	1,220	1,590	1.68	1.94
February	4,170	1,160	1,720	1.81	1.88
March	5,420	1,610	2,420	2.55	2.94
April	3,580	1,280	1,600	1.69	1.89
May	1,750	860	1,160	1.22	1.41
June	2,040	860	1,230	1.30	1.45
July	2,680	750	1,260	1.33	1.53
August	1,750	750	1,000	1.05	1.21
September	1,410	587	851	.897	1.00
The year	7,730	560	1,440	1.52	20.67

FRENCH BROAD RIVER NEAR NEWPORT, TENN.

LOCATION.—Water-stage recorder at highway bridge at Oldtown on Newport-Morristown Road, 2½ miles northeast of Newport, Cocke County, and 4 miles above mouth of Pigeon River. Zero of gage is 1,012.89 feet above mean sea level.

DRAINAGE AREA.—1,860 square miles.

RECORDS AVAILABLE.—September, 1900, to November, 1901; November, 1902, to December, 1905; August to December, 1907; and November, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 22,300 second-feet February 23 (gage height, 7.5 feet); minimum, 670 second-feet October 11 (gage height, 1.55 feet).

1900–1905, 1907, 1920–1927: Maximum discharge, 62,200 second-feet April 8, 1903 (gage height, 12.0 feet); minimum, 210 second-feet September 9, 1925.

REMARKS.—Records good except those for extremely high stages, which are fair. Diurnal fluctuation during low water caused by operation of three or four medium-sized water-power plants above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	931	780	2,170	4,860	3,180	3,230	2,480	2,460	5,990	1,260	2,060	1,750
2	957	756	1,980	4,100	2,690	3,230	2,530	2,460	3,740	1,240	1,910	1,820
3	1,080	780	1,810	3,570	2,480	3,070	2,610	2,200	3,370	1,330	1,390	1,480
4	1,050	744	1,730	3,260	2,360	3,010	2,460	2,110	3,040	1,240	1,370	1,500
5	905	720	1,610	2,990	2,430	3,230	2,400	1,970	2,460	1,150	1,670	1,310
6	879	710	1,570	2,690	2,690	3,570	2,930	1,910	2,200	1,120	1,420	1,410
7	866	700	1,500	2,480	5,340	4,250	2,720	1,910	2,180	1,200	1,330	1,260
8	804	690	1,450	2,280	4,250	8,240	2,480	1,930	2,160	1,350	1,120	1,500
9	744	944	1,810	2,180	3,150	11,200	2,230	1,820	2,040	1,240	1,950	1,290
10	680	1,470	3,800	2,160	2,720	13,300	2,690	1,770	1,860	1,190	2,260	1,560
11	670	2,020	2,540	2,020	2,480	8,420	3,230	1,770	1,710	2,180	2,720	1,480
12	710	1,470	2,090	1,880	2,280	6,160	2,910	1,710	1,670	2,280	3,010	1,410
13	816	1,140	2,590	1,860	2,480	5,020	2,590	1,620	1,730	1,930	2,960	1,170
14	1,080	1,070	3,520	2,040	4,400	5,340	2,360	1,600	3,010	1,880	2,280	1,070
15	1,070	1,040	3,460	2,360	4,710	5,820	2,180	1,560	2,910	2,020	1,910	927
16	970	7,920	2,970	2,380	3,540	4,860	2,130	1,520	3,430	3,200	1,600	912
17	828	7,920	2,640	2,380	2,960	4,250	2,020	1,540	2,800	3,260	1,560	869
18	866	5,320	2,310	2,380	2,610	3,800	2,000	1,540	3,540	3,540	1,650	828
19	944	4,240	2,040	2,380	2,510	3,630	4,400	1,370	5,820	3,770	2,180	1,000
20	816	3,800	1,850	2,360	4,100	3,260	2,610	1,330	4,100	3,570	1,710	1,190
21	744	2,840	1,850	1,910	4,710	3,260	2,820	1,350	2,990	2,330	1,440	1,280
22	700	2,360	2,540	1,840	3,680	3,310	6,160	1,280	2,400	2,110	1,310	927
23	690	2,150	2,660	1,770	8,420	3,100	6,660	1,260	2,800	4,400	1,190	828
24	680	1,890	2,360	1,840	13,300	2,800	4,560	1,330	2,430	2,740	1,190	780
25	720	1,690	2,840	1,910	7,350	2,910	3,510	1,950	2,230	1,970	1,070	780
26	1,110	1,830	7,540	1,970	5,340	2,880	2,990	1,930	1,950	1,600	1,020	840
27	1,140	3,050	7,920	2,020	4,250	2,690	2,720	1,560	1,800	1,410	1,500	854
28	918	3,460	7,730	2,200	3,600	2,590	2,480	1,390	1,520	1,500	1,650	744
29	816	2,570	14,200	2,260	-------	2,460	2,360	3,180	1,370	1,420	1,460	732
30	780	2,310	9,160	2,660	-------	2,360	2,230	5,990	1,290	1,440	1,350	720
31	792	-------	6,160	3,660	-------	2,360	-------	6,490	-------	1,390	1,330	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,140	670	863	0.464	0.53
November	7,920	690	2,280	1.23	1.37
December	14,200	1,450	3,560	1.91	2.20
January	4,860	1,770	2,470	1.33	1.53
February	13,300	2,280	4,070	2.19	2.28
March	13,300	2,360	4,440	2.39	2.76
April	6,660	2,000	2,950	1.59	1.77
May	6,490	1,260	2,060	1.11	1.28
June	5,990	1,290	2,680	1.44	1.61
July	4,400	1,120	2,010	1.08	1.24
August	3,010	1,020	1,700	.914	1.05
September	1,820	720	1,140	.613	.68
The year	14,200	670	2,510	1.35	18.30

FRENCH BROAD RIVER AT DANDRIDGE, TENN.

LOCATION.—Staff gage at highway bridge at Dandridge, Jefferson County. Zero of gage is 902.83 feet above mean sea level.

DRAINAGE AREA.—4,450 square miles.

RECORDS AVAILABLE.—October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 50,500 second-feet February 24 (gage height, 13.0 feet); minimum, 1,280 second-feet October 12 (gage height, 0.0 foot).

1918–1927: Maximum discharge, not determined; maximum gage height, 18.7 feet April 2, 1920; minimum discharge, 360 second-feet September 9 and 10, 1925 (gage height, −0.6 foot).

Maximum stage known, 28.0 feet May 21, 1901.

REMARKS.—Records good except those for extremely high stages, which are fair. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,180	2,180	5,720	14,500	13,800	10,700	6,170	6,480	25,600	3,340	3,090	2,850
2	1,980	1,620	5,440	12,000	10,000	9,340	7,100	6,480	16,300	3,090	5,570	3,090
3	2,570	1,980	4,900	10,000	9,010	10,000	6,790	6,480	11,000	7,100	3,340	3,340
4	2,370	1,980	4,640	9,010	8,370	10,000	5,870	5,570	22,800	3,860	3,090	3,340
5	1,980	1,980	4,130	8,370	8,370	9,340	5,870	5,570	15,600	3,600	3,860	3,090
6	2,980	1,800	3,650	7,730	7,730	9,010	6,480	5,270	10,700	3,340	3,340	3,090
7	2,370	1,800	4,130	7,100	14,100	10,000	7,410	4,980	8,370	3,090	3,090	3,090
8	2,180	1,800	4,130	6,480	19,300	19,700	7,100	4,980	8,690	3,340	2,620	2,620
9	1,980	1,620	4,130	6,170	13,100	24,000	6,480	4,410	7,100	3,340	3,340	4,130
10	1,800	5,440	11,500	5,870	10,000	33,800	6,170	4,410	6,480	3,860	5,570	2,850
11	1,800	4,130	10,800	5,870	9,340	24,400	7,100	4,410	6,790	3,340	4,130	2,850
12	1,280	3,650	8,470	5,270	8,050	17,400	9,340	4,130	6,170	4,410	6,790	2,850
13	1,980	2,780	10,800	4,690	7,730	13,800	8,050	3,860	7,730	4,130	6,170	2,620
14	2,780	2,570	13,600	4,980	13,100	13,800	6,790	3,600	6,480	3,600	5,270	2,400
15	3,200	2,370	12,600	6,480	15,900	16,300	6,480	3,860	7,730	3,600	3,860	2,190
16	2,570	4,380	10,800	5,870	12,000	13,800	5,870	3,340	8,370	4,130	3,860	2,190
17	2,370	29,800	8,470	4,410	9,670	11,700	5,570	3,860	8,690	4,690	3,860	2,190
18	2,180	15,500	7,190	5,570	8,370	10,300	4,980	4,130	7,410	4,410	4,130	1,990
19	1,980	10,100	6,000	5,870	8,050	9,340	5,870	3,600	13,300	9,010	3,860	1,990
20	2,180	9,460	5,440	5,570	9,010	9,010	7,410	3,340	11,300	5,570	4,130	2,400
21	1,980	7,190	6,580	5,270	15,600	8,050	6,790	3,340	9,010	5,870	3,340	2,620
22	1,980	5,720	12,200	5,270	12,700	8,690	12,700	3,340	7,410	4,410	2,850	2,400
23	1,800	5,440	11,900	5,270	13,400	8,370	22,000	2,850	6,790	4,690	2,850	2,190
24	1,620	4,900	10,500	4,690	49,200	7,730	15,600	3,090	6,790	5,870	2,620	1,990
25	1,620	4,640	14,400	6,170	31,600	7,730	10,700	3,340	6,170	4,980	2,850	1,990
26	1,620	3,890	25,100	5,870	20,800	7,410	8,690	5,270	5,570	4,130	2,400	1,800
27	2,370	9,800	28,100	5,870	14,800	7,100	7,730	4,130	4,690	3,600	2,850	1,440
28	2,370	10,100	20,900	6,170	12,000	6,480	7,100	3,860	4,690	3,340	3,340	1,990
29	1,980	8,470	35,600	7,410	-------	6,480	6,480	5,570	3,860	3,090	3,340	1,800
30	1,980	6,580	29,000	8,050	-------	6,170	6,170	16,300	3,860	2,850	2,620	1,800
31	1,980	-------	20,800	14,500	-------	6,170	-------	26,900	-------	3,340	2,620	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,200	1,280	2,130	0.479	0.55
November	29,800	1,620	5,790	1.30	1.45
December	35,600	3,650	11,700	2.63	3.03
January	14,500	4,410	6,980	1.57	1.81
February	49,200	7,730	13,800	3.10	3.23
March	33,800	6,170	11,800	2.65	3.06
April	22,000	4,980	7,900	1.78	1.99
May	26,900	2,850	5,510	1.24	1.43
June	25,600	3,860	9,200	2.07	2.31
July	9,010	2,850	4,230	.950	1.10
August	6,790	2,400	3,700	.831	.96
September	4,130	1,440	2,510	.564	.63
The year	49,200	1,280	7,050	1.58	21.55

TENNESSEE RIVER AT KNOXVILLE, TENN.

LOCATION.—Water-stage recorder at Knoxville Water Co.'s intake half a mile above Gay Street Bridge in Knoxville, Knox County. Zero of gage is 797.45 feet above mean sea level.

DRAINAGE AREA.—8,990 square miles.

RECORDS AVAILABLE.—January, 1899, to December, 1912, and October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 106,000 second-feet February 25 (gage height, 19.9 feet); minimum, 2,600 second-feet October 13 (gage height, −0.40 foot).

1899–1927: Maximum discharge, 195,000 second-feet March 1, 1902 (gage height, 36.4 feet); minimum, 1,390 second-feet September 11, 1925 (gage height, −1.7 feet).

Maximum stage known, 44.4 feet March 10, 1867.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,480	4,020	12,100	35,500	31,800	24,100	12,400	13,300	65,900	7,610	6,150	5,640
2	3,560	3,920	10,400	27,100	28,300	22,200	13,300	13,700	41,300	7,610	7,950	5,520
3	3,220	3,740	9,350	22,000	21,000	21,200	14,600	13,700	26,100	8,500	7,610	6,150
4	3,920	3,830	8,600	19,000	18,500	20,700	15,100	12,400	41,100	9,890	7,290	7,140
5	3,920	3,740	8,120	17,000	18,000	19,700	13,700	12,400	37,200	8,880	7,450	6,420
6	4,410	3,560	7,670	15,500	18,500	18,800	13,700	12,400	26,400	7,450	7,140	5,280
7	4,210	3,480	7,390	14,000	26,100	19,300	13,700	11,600	20,700	6,700	6,280	5,280
8	3,830	3,220	7,530	13,100	34,400	33,600	13,700	10,700	19,700	6,700	5,890	5,060
9	3,560	4,620	9,560	12,600	31,300	54,400	13,300	11,100	17,800	7,140	6,150	5,400
10	3,220	6,860	18,700	11,400	23,500	62,800	13,300	12,800	15,500	7,950	9,080	6,020
11	3,140	9,560	34,400	10,900	19,500	49,700	17,400	12,800	14,600	8,130	8,500	5,760
12	2,820	8,120	32,300	10,400	17,500	35,000	23,600	11,600	15,100	7,950	10,300	5,280
13	2,900	6,730	30,200	9,560	21,000	27,700	19,300	10,700	15,500	7,950	10,300	5,060
14	4,620	5,740	29,700	9,770	27,600	27,200	16,000	10,700	15,100	7,610	9,080	4,950
15	7,120	5,860	27,100	10,700	32,900	28,200	15,100	9,680	15,100	7,140	7,450	4,740
16	7,390	9,990	23,500	11,100	29,200	26,100	17,800	8,880	16,900	6,990	7,610	4,230
17	6,220	35,900	18,500	10,700	22,000	22,200	15,100	8,690	17,400	8,880	7,290	4,040
18	4,940	38,200	16,000	9,990	21,500	19,700	13,300	8,880	16,900	8,690	11,600	3,850
19	4,020	21,000	13,600	10,200	21,000	17,800	13,300	8,500	18,800	10,300	12,400	3,580
20	4,020	15,500	12,100	10,700	22,000	16,900	16,900	8,130	18,800	11,600	10,100	3,500
21	3,740	13,100	17,000	9,990	36,600	15,500	16,400	8,130	16,000	11,100	8,690	4,130
22	3,480	10,700	32,100	9,990	39,800	15,500	29,900	7,780	14,200	8,690	7,450	4,330
23	3,560	9,350	53,100	10,200	49,700	15,100	47,200	7,610	12,800	8,310	6,150	4,040
24	3,480	8,440	55,300	10,200	96,200	14,600	47,100	7,140	12,400	10,100	6,150	3,670
25	3,650	7,820	49,900	11,100	10,300	13,700	28,700	7,450	12,000	9,890	5,890	3,670
26	3,560	8,600	69,800	11,100	65,400	13,700	20,700	9,480	10,700	8,560	5,520	3,500
27	4,210	13,600	74,000	11,600	42,100	13,300	17,400	8,690	10,100	7,140	5,520	3,410
28	5,160	17,500	68,000	11,900	29,700	12,400	15,500	8,690	9,480	6,420	7,290	3,580
29	5,280	17,000	73,400	13,600	-------	12,400	14,200	11,600	8,690	6,280	7,290	3,500
30	4,510	14,000	70,400	18,500	-------	11,600	13,300	23,100	7,610	5,890	5,760	3,410
31	4,410	-------	52,500	28,200	-------	11,600	-------	60,500	-------	6,020	5,170	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	7,390	2,820	4,180	0.465	0.54
November	38,200	3,220	10,600	1.18	1.32
December	74,000	7,390	30,700	3.41	3.93
January	35,500	9,560	14,100	1.57	1.81
February	103,000	17,500	33,800	3.76	3.92
March	62,800	11,600	23,100	2.57	2.96
April	47,200	12,400	18,500	2.06	2.30
May	60,500	7,140	12,300	1.37	1.58
June	65,900	7,610	19,700	2.19	2.44
July	11,600	5,890	8,130	.904	1.04
August	12,400	5,170	7,630	.849	.98
September	7,140	3,410	4,670	.519	.58
The year	103,000	2,820	15,500	1.72	23.40

TENNESSEE RIVER AT LOUDON, TENN.

LOCATION.—Staff gage at Huffs Ferry half a mile northwest of Loudon, Loudon County. Zero of gage is 726.0 feet above mean sea level.

DRAINAGE AREA.—12,300 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 121,000 second-feet December 26 (gage height, 20.7 feet); minimum, 4,650 second-feet October 14 (gage height, 1.71 feet).

1922–1927: Maximum discharge, that of December 26, 1926; minimum, 2,190 second-feet September 12, 1925 (gage height, 0.82 foot).

REMARKS.—Records fair. Low-water flow slightly affected by regulation on Little Tennessee and Cheoah Rivers.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,460	6,460	19,400	60,800	41,400	38,300	20,000	20,500	79,600	11,800	11,800	8,010
2	5,720	6,460	17,200	44,600	41,400	35,200	21,600	20,000	58,800	11,800	10,200	8,840
3	5,720	6,090	15,600	37,700	34,600	32,800	21,600	19,400	39,600	12,800	11,800	8,420
4	5,360	6,090	14,500	32,860	29,200	32,200	22,800	18,800	36,400	13,400	11,200	9,740
5	6,090	6,090	13,400	29,200	27,400	31,600	21,600	17,200	49,700	13,400	11,880	10,700
6	6,460	6,090	12,300	26,200	26,800	30,400	24,500	17,800	36,400	11,800	11,200	9,280
7	6,460	5,720	11,800	23,900	31,600	31,600	22,800	17,800	29,800	10,700	10,200	8,420
8	6,090	5,360	11,800	22,200	39,600	49,000	21,600	16,600	26,800	10,700	9,740	8,420
9	5,720	6,460	21,000	20,500	42,000	80,900	21,600	15,000	25,000	10,700	11,800	8,010
10	5,360	10,700	31,000	19,400	37,000	88,700	21,000	16,100	22,200	11,800	11,800	8,840
11	5,000	13,400	36,400	18,800	32,800	78,300	22,200	18,300	20,500	13,400	13,900	8,420
12	5,000	12,800	44,600	18,300	29,200	60,100	30,400	17,200	20,500	13,400	17,200	8,420
13	5,000	10,200	49,000	17,200	30,400	47,100	30,400	15,000	24,500	12,300	18,800	8,010
14	5,000	8,840	58,800	16,600	46,400	44,600	25,600	13,900	22,200	11,800	15,000	7,610
15	7,220	8,840	46,400	17,200	47,800	47,100	22,800	12,800	25,000	11,200	15,600	7,610
16	8,420	16,600	39,600	17,800	45,200	42,700	23,300	11,800	28,600	10,700	13,900	7,220
17	9,280	30,400	33,400	17,800	37,000	37,700	22,800	12,300	28,000	12,300	12,300	6,840
18	8,010	48,400	28,600	17,200	35,200	33,400	18,800	12,300	28,000	13,900	13,900	6,460
19	6,460	35,200	23,300	17,200	35,800	28,000	19,400	12,300	31,000	12,800	16,600	6,460
20	5,720	26,800	21,000	17,200	33,400	28,000	21,000	12,800	29,800	16,100	15,000	6,460
21	6,090	21,600	23,300	17,200	37,700	26,200	23,900	12,300	26,200	15,000	12,800	6,460
22	5,720	17,800	35,200	17,200	51,000	25,600	34,000	11,800	22,800	13,400	11,800	6,460
23	5,360	15,600	56,800	16,100	52,300	24,500	51,600	10,700	21,000	12,300	10,200	6,840
24	5,720	13,400	69,200	15,600	104,000	23,900	58,800	11,200	19,400	13,400	9,280	6,460
25	5,720	12,300	80,900	17,800	113,000	22,800	45,800	11,800	18,300	12,800	9,280	6,090
26	6,090	12,300	115,000	18,300	95,200	21,600	32,200	13,400	16,600	12,300	8,420	6,090
27	6,090	21,600	110,000	18,300	61,400	21,000	26,200	13,900	15,600	11,200	8,010	5,720
28	6,840	25,600	96,500	18,800	45,800	20,000	23,300	13,900	13,900	9,740	8,840	5,360
29	7,220	25,600	115,000	21,000	-------	19,400	21,000	15,000	13,400	9,280	11,800	5,720
30	7,220	22,800	104,000	25,600	-------	18,800	20,000	23,900	12,800	9,280	9,740	5,720
31	6,840	-------	81,600	37,700	-------	18,300	-------	46,400	-------	9,740	8,420	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	9,280	5,000	6,240	0.507	0.58
November	48,400	5,360	15,500	1.26	1.41
December	115,000	11,800	46,300	3.76	4.34
January	60,800	15,600	23,100	1.88	2.17
February	113,000	26,800	45,900	3.73	3.88
March	88,700	18,300	36,800	2.99	3.45
April	58,800	18,800	26,400	2.15	2.40
May	46,400	10,700	16,200	1.32	1.52
June	79,600	12,800	28,100	2.28	2.54
July	16,100	9,280	12,100	.984	1.13
August	18,800	8,010	12,000	.976	1.13
September	10,700	5,360	7,440	.605	.68
The year	115,000	5,000	22,900	1.86	25.23

TENNESSEE RIVER AT CHATTANOOGA, TENN.

LOCATION.—Two water-stage recorders, one at Walnut Street Bridge in Chattanooga, Hamilton County, the other at Hales Bar, 33 miles downstream. Zero of Chattanooga gage is 620.85 feet and of Hales Bar gage is 626.06 feet above mean sea level.

DRAINAGE AREA.—21,400 square miles.

RECORDS AVAILABLE.—April, 1874, to October, 1913, and March, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 249,000 second-feet December 29 (gage height, 38.4 feet, on Chattanooga gage); minimum, 7,500 second-feet October 2.

1874–1927: Maximum discharge, 361,000 second-feet March 1, 1875 (gage height, 54.0 feet, on Chattanooga gage); minimum, estimated 3,300 second-feet September 13, 1925.

REMARKS.—Records good. Discharge estimated August 26–28 and September 3. Flow during low stages regulated to large extent by operation of power plant at Hales Bar Dam.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,030	10,200	46,100	195,000	70,000	96,200	42,100	35,400	58,100	21,700	19,200	15,700
2	7,500	9,880	40,300	143,000	77,600	75,800	44,500	33,600	101,000	21,400	19,300	15,900
3	8,810	9,800	33,800	98,000	79,000	66,800	45,100	32,800	110,000	20,600	17,400	14,100
4	9,150	9,850	29,600	76,100	70,800	61,400	44,700	33,500	83,500	19,900	17,200	21,300
5	8,810	9,950	26,100	63,000	59,500	58,100	47,200	31,600	60,600	16,600	19,300	12,500
6	9,480	10,500	22,500	54,800	51,800	56,400	51,500	31,300	66,400	19,500	20,000	13,100
7	8,520	8,030	22,100	48,500	50,000	58,000	51,500	31,300	59,700	19,300	15,900	13,800
8	9,050	9,480	19,300	43,700	54,500	73,000	48,200	28,900	49,800	19,400	16,500	13,000
9	9,030	11,800	24,300	41,100	63,600	106,000	44,300	27,500	43,400	18,300	16,400	13,000
10	8,810	15,100	35,100	36,700	67,300	151,000	49,000	26,900	39,900	16,400	19,200	11,800
11	8,910	16,000	51,400	34,900	63,800	165,000	66,500	26,200	37,600	21,300	19,000	11,100
12	8,100	19,500	66,000	33,200	57,400	154,000	64,600	28,900	38,300	22,500	23,000	11,400
13	8,240	19,900	95,500	32,100	56,800	124,000	68,700	32,100	41,000	23,600	25,000	11,400
14	9,200	18,400	112,000	31,000	73,500	109,000	72,000	30,100	40,300	21,800	26,400	11,900
15	8,900	21,200	109,000	29,700	90,200	112,000	60,200	26,900	40,000	21,200	25,900	11,400
16	8,630	37,700	88,800	28,000	90,400	105,000	49,500	25,700	42,700	21,000	26,200	11,000
17	10,200	45,200	73,400	28,500	82,200	89,600	46,500	23,700	45,800	16,800	23,800	11,800
18	13,400	51,600	60,400	29,100	74,800	78,600	51,200	22,300	44,200	19,300	21,700	10,600
19	12,400	69,000	48,600	30,000	75,800	69,200	47,200	20,900	46,100	25,500	26,200	10,600
20	12,100	65,400	40,000	28,800	79,200	59,800	42,200	20,900	49,400	24,600	29,900	11,500
21	10,700	46,600	38,300	29,100	79,000	55,500	40,600	21,500	47,300	23,000	28,000	10,900
22	10,200	35,600	57,700	30,900	81,200	51,700	47,400	17,700	43,800	22,500	23,100	11,300
23	9,180	30,600	91,900	35,200	96,000	47,700	62,500	18,900	40,800	21,400	20,600	10,300
24	7,550	26,600	119,000	33,900	130,000	45,400	78,600	18,500	37,100	18,800	17,900	9,440
25	9,920	23,200	166,000	32,900	158,000	43,500	90,800	19,800	34,100	18,800	16,600	9,600
26	9,360	22,600	216,000	34,300	182,000	41,300	78,900	20,700	30,700	19,500	17,500	9,200
27	8,720	30,700	236,000	35,200	176,000	39,000	66,500	20,200	27,900	18,900	15,600	8,510
28	8,140	38,200	244,000	35,100	139,000	37,400	51,400	20,400	26,200	17,900	11,900	9,280
29	9,020	42,100	248,000	35,900	.....	35,600	43,600	19,200	24,600	16,500	12,800	9,470
30	8,950	46,200	245,000	40,200	.....	33,900	39,000	22,200	22,800	14,900	14,900	9,180
31	9,220	.....	232,000	52,200	.....	35,400	.....	32,400	.....	12,800	14,500	.....

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,400	7,500	9,300	0.435	0.50
November	69,000	8,030	27,000	1.26	1.41
December	248,000	19,300	94,800	4.43	5.11
January	195,000	28,000	48,400	2.26	2.61
February	182,000	50,000	86,700	4.05	4.22
March	165,000	33,900	75,400	3.52	4.06
April	90,800	39,000	54,600	2.55	2.84
May	35,400	17,700	25,800	1.21	1.40
June	110,000	22,800	47,800	2.23	2.49
July	25,500	12,800	19,900	.933	1.08
August	29,900	11,900	20,000	.934	1.08
September	21,300	9,180	11,800	.551	.61
The year	248,000	7,500	43,200	2.02	27.41

TENNESSEE RIVER AT DECATUR, ALA.

LOCATION.—Water-stage recorder at highway bridge at Decatur, Morgan County, 2,500 feet upstream from Louisville & Nashville Railroad bridge. Prior to December 3, 1926, and from December 19, 1926, to January 11, 1927, a staff gage at railroad bridge was used. Zero of both gages is 534.06 feet above mean sea level.

DRAINAGE AREA.—26,300 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 288,000 second-feet January 1 (gage height, 23.2 feet); minimum mean daily discharge, 7,520 second-feet September 27.

1924–1927: Maximum discharge, that of January 1, 1927; minimum, 3,520 second-feet August 19–24, September 7–13, and 19, 1925 (gage height, −0.4 foot).

Maximum stage known, 29.5 feet March 15, 1867.

REMARKS.—Records fair prior to December 3 and good after that date. Discharge estimated August 13, 14, and 18–20. Some diurnal fluctuation caused by operation of power plant at Hales Bar Dam 100 miles upstream. Gage-height record furnished by United States Weather Bureau prior to December 3, 1926.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,870	11,100	54,500	283,000	57,600	170,000	44,500	47,700	28,000	28,000	15,600	15,600
2	9,400	9,400	56,100	277,000	70,000	165,000	55,000	43,000	45,300	26,100	15,600	15,600
3	9,400	10,300	52,700	272,000	83,000	140,000	56,800	40,000	78,000	25,400	21,200	16,200
4	8,940	12,300	47,400	251,000	87,000	110,000	55,000	38,500	99,900	25,400	23,600	16,200
5	8,940	12,300	42,300	214,000	84,000	88,000	54,200	37,800	96,600	23,600	24,200	15,000
6	11,500	11,800	37,400	159,000	76,000	77,000	55,000	38,500	76,000	19,400	24,200	12,500
7	11,500	12,300	33,300	105,000	68,200	72,000	59,300	42,200	66,400	18,900	23,600	13,500
8	11,100	12,800	32,600	74,600	68,200	81,000	61,000	43,800	65,500	20,000	21,200	15,000
9	10,100	11,300	32,000	60,200	68,200	105,000	59,300	40,800	58,400	21,800	17,800	15,600
10	9,400	13,200	34,000	53,700	71,000	132,000	56,800	37,800	50,900	22,400	18,400	15,000
11	9,400	17,400	38,800	48,900	75,000	152,000	71,000	35,600	46,100	18,900	20,000	15,000
12	9,400	19,600	48,200	44,500	76,000	165,000	97,700	33,500	42,200	16,200	21,800	15,000
13	11,500	17,400	67,900	41,500	75,000	172,000	106,000	32,100	40,000	20,000	23,600	14,000
14	12,300	20,200	99,800	40,000	80,000	175,000	111,000	33,500	43,000	23,600	24,800	13,500
15	11,500	23,100	122,000	40,000	91,100	172,000	109,000	35,600	44,500	24,800	26,800	13,500
16	10,600	27,400	130,000	37,000	102,000	160,000	95,500	33,500	44,500	24,200	28,700	13,500
17	9,870	37,100	125,000	34,900	106,000	148,000	79,000	30,700	44,500	24,200	29,400	13,500
18	9,400	49,700	106,000	34,200	104,000	128,000	66,400	28,000	46,900	22,400	28,700	13,500
19	8,480	56,900	83,400	34,200	102,000	105,000	62,800	26,100	48,500	19,400	26,800	12,500
20	12,300	63,800	67,400	35,600	101,000	90,000	60,200	24,200	49,300	22,400	25,400	11,000
21	13,800	71,900	56,900	40,000	98,800	77,000	54,200	23,600	53,400	26,100	28,000	10,200
22	13,200	63,800	51,300	44,500	96,600	69,100	50,100	23,800	57,600	26,800	31,400	10,500
23	12,800	53,700	56,900	45,300	94,400	63,700	50,100	22,400	57,600	25,400	31,400	11,200
24	11,800	43,500	84,400	46,100	108,000	58,400	56,800	19,400	55,000	24,800	28,000	11,200
25	11,100	37,800	129,000	46,900	123,000	55,000	70,000	20,600	49,300	23,000	24,800	11,000
26	9,170	33,100	175,000	45,300	140,000	52,500	84,000	21,200	43,800	21,200	23,000	9,320
27	9,170	31,800	201,000	46,100	154,000	50,100	89,000	21,800	39,200	21,800	21,800	7,520
28	9,870	35,800	218,000	47,700	163,000	46,900	81,000	23,000	34,900	21,200	20,000	8,420
29	10,300	38,500	251,000	48,500	-------	45,300	65,500	24,800	32,100	20,000	16,700	9,320
30	10,300	48,900	267,000	48,500	-------	43,800	54,200	24,200	30,000	18,900	12,500	9,320
31	11,100	-------	277,000	50,100	-------	43,000	-------	23,600	-------	18,400	14,000	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,800	8,480	10,600	0.403	0.46
November	71,900	9,400	30,300	1.15	1.28
December	277,000	32,000	99,300	3.78	4.36
January	283,000	34,200	85,500	3.25	3.75
February	163,000	57,600	93,700	3.56	3.71
March	175,000	43,000	104,000	3.95	4.55
April	111,000	44,500	69,000	2.62	2.92
May	47,700	19,400	31,300	1.19	1.37
June	99,900	28,000	52,200	1.98	2.21
July	28,000	16,200	22,400	.852	.98
August	31,400	12,500	23,000	.875	1.01
September	16,200	7,520	12,800	.487	.54
The year	283,000	7,520	52,600	2.00	27.14

TENNESSEE RIVER AT FLORENCE, ALA.

LOCATION.—Water-stage recorder 700 feet above Southern Railway bridge at lower end of Pattons Island, 1 mile south of Florence, Lauderdale County, and 2½ miles below Wilson Dam. Zero of gage is 400.85 feet above mean sea level.

DRAINAGE AREA.—30,800 square miles.

RECORDS AVAILABLE.—November, 1871, to September, 1927.

EXTREMES.—Maximum discharge during year, 344,000 second-feet December 29 (gage height, 26.5 feet); minimum, 8,100 second-feet (regulated flow) October 20 (gage height, −0.75 foot).

1871–1927: Maximum discharge, about 444,000 second-feet March 19, 1897 (gage height, 32.5 feet); minimum, 2,400 second-feet caused by storing at Wilson Dam October 8, 1925 (gage height, −3.0 feet).

REMARKS.—Records good. Flow regulated to considerable extent by operation of gates at Wilson Dam, and also during low water, by operation of power plant at Hales Bar Dam.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,460	11,200	68,300	328,000	74,700	184,000	52,300	55,200	27,600	29,900	19,400	16,400
2	9,880	10,500	65,200	314,000	83,600	187,000	64,100	44,000	38,800	26,900	17,000	15,400
3	9,460	10,500	61,100	296,000	96,500	170,000	64,100	45,800	71,400	26,900	20,100	16,400
4	9,050	12,200	54,200	283,000	101,000	135,000	71,400	41,300	101,000	25,500	25,500	16,400
5	10,300	12,200	46,700	259,000	98,900	104,000	66,200	39,600	103,000	25,500	26,900	15,900
6	12,200	12,000	41,300	211,000	90,500	88,200	62,100	44,000	84,800	21,000	25,500	14,200
7	13,200	12,200	35,400	139,000	83,600	83,600	64,100	50,400	68,300	18,800	24,800	12,700
8	11,200	13,200	36,200	90,500	81,300	96,500	66,200	54,200	67,200	21,400	24,100	15,400
9	10,500	16,400	42,200	74,700	79,100	135,000	67,200	46,700	62,100	22,700	20,100	15,400
10	10,300	19,400	50,400	60,100	79,100	167,000	75,800	43,100	53,200	22,700	22,700	15,400
11	10,300	20,100	49,400	55,200	83,600	181,000	97,700	40,400	46,700	21,000	22,700	14,200
12	9,460	19,400	62,100	48,500	85,900	187,000	129,000	37,900	43,100	18,200	24,100	15,400
13	10,300	20,100	101,000	44,900	91,700	256,000	147,000	34,600	39,600	20,800	24,800	14,800
14	11,400	21,400	134,000	42,200	103,000	253,000	166,000	34,600	42,200	24,100	24,100	13,700
15	11,700	26,900	150,000	41,300	112,000	226,000	167,000	37,000	44,900	26,900	27,600	13,200
16	10,300	31,400	156,000	39,600	117,000	196,000	138,000	36,200	44,000	25,500	29,200	13,200
17	9,880	39,600	147,000	37,900	121,000	175,000	98,900	32,200	44,900	25,500	29,900	13,200
18	9,880	55,200	127,000	36,200	122,000	154,000	83,600	26,900	55,200	25,500	31,400	12,700
19	9,050	64,100	103,000	36,200	122,000	131,000	73,600	28,400	53,200	21,400	28,400	13,200
20	8,660	68,300	81,300	37,900	118,000	108,000	73,600	26,900	55,200	22,700	26,200	12,000
21	12,200	78,000	70,400	53,200	116,000	90,500	65,200	25,500	62,100	25,500	25,500	10,500
22	13,200	74,700	76,900	70,400	109,000	79,100	56,100	25,500	69,400	27,600	30,600	10,500
23	13,200	60,100	83,600	66,200	109,000	72,500	57,100	24,800	67,200	26,200	30,600	11,200
24	12,200	46,700	142,000	60,100	131,000	65,200	60,100	21,400	62,100	25,500	28,400	11,200
25	11,400	41,300	229,000	60,100	145,000	61,100	71,400	22,700	54,200	24,100	25,500	11,200
26	10,500	37,900	266,000	58,100	156,000	57,100	87,000	22,700	47,600	22,700	22,700	10,800
27	9,050	37,900	275,000	57,100	167,000	54,200	96,500	23,400	40,400	22,700	21,400	10,500
28	9,460	38,800	315,000	58,100	175,000	52,300	89,400	25,500	37,000	22,700	20,100	9,880
29	10,800	47,600	342,000	56,100	-------	52,300	69,400	25,500	33,000	21,400	18,200	9,880
30	10,300	63,100	342,000	58,100	-------	47,600	55,200	26,900	30,600	20,100	14,200	10,300
31	10,300	-------	336,000	70,400	-------	46,700	-------	24,100	-------	20,100	12,700	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	13,200	8,660	10,600	0.344	0.40
November	78,000	10,500	34,100	1.11	1.24
December	342,000	35,400	132,000	4.29	4.95
January	328,000	36,200	101,000	3.28	3.78
February	175,000	74,700	109,000	3.54	3.69
March	256,000	46,700	126,000	4.09	4.72
April	167,000	52,300	84,500	2.74	3.06
May	55,200	21,400	34,400	1.12	1.29
June	103,000	27,600	55,000	1.79	2.00
July	29,900	18,200	23,600	.766	.88
August	31,400	12,700	24,000	.779	.90
September	16,400	9,880	13,200	.429	.48
The year	342,000	8,660	62,100	2.02	27.39

TENNESSEE RIVER AT RIVERTON, ALA.

LOCATION.—Water-stage recorder at Government lock at foot of Colbert Shoals canal three-fourths mile northeast of Riverton, Colbert County, and 1¾ miles above mouth of Bear Creek. Zero of gage is 355.5 feet above mean sea level.

DRAINAGE AREA.—31,300 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927.

EXTREMES.—Maximum stage during year, 50.1 feet December 30; minimum mean daily stage, 7.8 feet September 22, 29, and 30.

The United States Weather Bureau reports a maximum stage of 58.4 feet March 20, 1897, and a minimum stage of 4.3 feet October 12, 1925.

REMARKS.—Rating curve not developed because of lack of facilities for making discharge measurements. Gage-height record estimated November 21, 25, June 12, 16, 17 and partly estimated November 1, 19, 20, 22, 24, January 29, February 5, June 10, 11, 13, 15, 18, 19, and 21–25. Considerable regulation during low water caused by operation of Wilson Dam.

Daily gage-height, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-------	8.2	18.4	49.3	-------	32.9	15.6	15.6	11.6	12.4	10.3	9.2
2	-------	8.1	17.9	48.6	-------	33.9	17.6	14.7	13.2	11.9	9.7	9.4
3	-------	8.0	17.5	47.5	-------	33.2	17.5	15.4	17.5	11.7	9.8	9.3
4	-------	8.3	16.7	46.5	-------	30.2	19.0	14.4	21.2	11.5	11.3	9.6
5	-------	8.5	15.6	45.2	22.7	26.1	18.1	14.1	23.0	11.3	11.7	9.3
6	-------	8.4	14.5	42.8	22.0	23.0	18.0	14.6	21.5	11.1	11.5	9.2
7	-------	8.4	13.5	38.5	21.6	21.4	17.6	16.6	18.9	10.0	11.3	8.6
8	-------	8.6	13.4	33.0	20.9	22.5	18.1	17.0	18.3	10.4	11.1	8.5
9	-------	9.3	14.5	27.9	20.4	26.7	19.3	16.1	17.7	10.6	10.6	9.3
10	-------	9.9	15.9	22.2	20.2	30.7	20.0	15.0	16.4	10.9	10.6	9.3
11	-------	10.3	15.9	18.4	20.5	33.0	22.7	14.5	15.4	10.8	10.9	9.1
12	-------	10.1	16.7	16.3	20.9	34.1	26.3	13.9	14.5	10.1	11.1	9.0
13	-------	10.3	21.8	15.1	21.7	40.0	28.8	13.4	14.2	10.0	11.1	9.1
14	-------	10.2	25.6	14.8	23.1	43.9	30.6	13.3	14.3	11.2	11.2	8.9
15	-------	11.2	28.5	14.4	24.2	42.2	31.9	13.6	14.8	11.5	11.5	8.7
16	-------	12.1	29.4	14.3	25.0	40.1	30.8	13.6	15.3	11.6	12.0	8.7
17	-------	13.4	29.2	13.9	25.5	37.8	27.3	13.0	15.8	11.5	12.3	8.7
18	-------	15.5	27.3	13.5	26.0	35.3	23.5	12.0	16.3	11.4	12.6	8.7
19	-------	17.5	24.1	13.6	26.3	32.8	20.5	11.9	16.4	10.8	12.3	8.5
20	-------	18.0	21.1	13.9	25.8	28.9	20.5	11.8	17.5	10.6	11.7	8.5
21	-------	18.9	19.1	16.4	25.2	25.1	20.0	11.6	18.6	11.2	11.4	8.1
22	-------	19.3	19.6	19.4	24.5	22.3	18.0	11.4	18.7	11.7	12.1	7.8
23	-------	17.7	20.7	19.5	24.3	20.1	17.3	11.4	18.7	11.7	12.5	8.1
24	8.3	16.4	23.0	18.0	26.2	18.6	17.4	10.9	17.7	11.4	12.2	8.2
25	8.1	15.2	37.7	17.8	28.2	17.8	18.6	10.9	17.0	11.3	11.6	8.2
26	-------	13.9	42.4	17.5	29.2	17.1	20.5	11.0	15.6	10.8	11.0	8.1
27	-------	13.6	44.0	17.4	30.6	16.7	21.9	11.0	14.5	10.6	10.7	8.0
28	-------	13.7	46.1	17.3	31.7	16.2	21.8	11.2	14.0	10.3	10.5	7.9
29	-------	15.0	49.3	17.2	-------	16.3	19.2	11.4	13.1	10.5	10.0	7.8
30	-------	17.2	50.0	-------	-------	16.0	17.1	11.7	12.6	10.3	9.4	7.8
31	-------	-------	49.9	-------	-------	15.4	-------	11.4	-------	10.3	8.6	-------

TENNESSEE RIVER AT JOHNSONVILLE, TENN.

LOCATION.—Water-stage recorder at Nashville, Chattanooga & St. Louis Railway bridge at Johnsonville, Humphreys County. Zero of gage is 320.98 feet above mean sea level. Prior to October 21, 1926, staff gage 750 feet downstream was used, the zero of which was 320.75 feet above mean sea level.

DRAINAGE AREA.—38,500 square miles.

RECORDS AVAILABLE.—October, 1875, to September, 1927.

EXTREMES.—Maximum discharge during year, 342,000 second-feet January 2–4 (gage height, 40.5 feet); minimum, 11,000 second-feet October 22 (gage height, 0.5 foot).

1889–1927: Maximum discharge, 410,000 second-feet March 24, 1897 (gage height, 48.0 feet); minimum, 3,500 second-feet September 11, 1925 (gage height, −2.0 feet).

REMARKS.—Records good except those for extremely high stages, which are fair. Low-water flow regulated to some extent by operations at Hales Bar Dam and Wilson Dam. Gage-height record for period October 1–20 furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14,100	18,600	79,900	337,000	113,000	180,000	104,000	90,000	34,400	39,000	23,700	18,600
2	12,400	18,100	88,500	342,000	125,000	188,000	108,000	75,300	37,700	37,000	23,100	16,500
3	11,600	17,000	85,300	342,000	134,000	194,000	113,000	64,800	49,100	35,000	22,500	17,000
4	11,200	16,000	79,100	342,000	143,000	196,000	112,000	61,900	67,700	33,100	21,400	17,600
5	12,400	15,100	71,500	340,000	148,000	191,000	113,000	56,800	98,000	31,100	24,900	18,100
6	16,800	15,100	63,300	338,000	150,000	173,000	112,000	58,300	113,000	30,500	29,800	18,600
7	18,300	15,600	55,400	333,000	150,000	155,000	107,000	66,300	112,000	29,200	30,500	18,100
8	16,400	15,600	49,100	323,000	146,000	162,000	104,000	76,800	100,000	26,100	29,200	17,600
9	15,400	16,500	49,800	313,000	138,000	163,000	110,000	77,500	91,600	23,700	34,400	16,000
10	15,400	18,600	58,300	284,000	129,000	176,000	139,000	74,500	84,500	24,300	33,700	16,500
11	16,800	24,300	64,800	244,000	120,000	190,000	153,000	68,500	77,500	25,500	27,900	17,600
12	15,000	27,900	68,500	188,000	116,000	204,000	173,000	61,900	67,000	26,100	26,700	17,600
13	14,100	26,700	78,300	128,000	115,000	241,000	210,000	56,100	59,700	24,300	27,300	16,500
14	15,400	26,100	108,000	87,700	117,000	264,000	235,000	54,000	54,700	22,500	27,300	16,500
15	15,000	31,800	137,000	66,300	124,000	286,000	248,000	51,200	51,900	24,300	27,900	16,500
16	14,600	39,700	153,000	56,100	131,000	297,000	258,000	49,100	51,900	27,300	28,600	16,000
17	14,600	43,700	160,000	51,200	136,000	292,000	256,000	47,100	54,700	29,800	31,100	15,100
18	14,600	49,100	161,000	48,400	145,000	286,000	241,000	44,300	60,400	30,500	32,400	15,100
19	12,800	59,000	154,000	45,700	149,000	280,000	215,000	39,000	64,800	29,800	33,700	15,600
20	12,400	70,000	138,000	51,900	151,000	271,000	185,000	35,700	68,500	28,600	34,400	15,600
21	11,300	74,500	167,000	67,700	149,000	260,000	179,000	35,000	69,200	26,100	31,800	14,600
22	11,000	79,900	186,000	78,300	144,000	237,000	176,000	33,700	75,300	23,700	29,800	13,800
23	11,700	82,200	177,000	104,000	138,000	204,000	160,000	32,400	83,000	28,600	30,500	12,900
24	14,200	75,300	183,000	119,000	138,000	169,000	137,000	31,800	83,800	29,800	33,100	12,100
25	16,500	64,000	217,000	117,000	149,000	141,000	119,000	31,100	79,100	29,200	33,100	12,100
26	15,600	56,800	249,000	113,000	161,000	123,000	111,000	29,800	71,500	28,600	31,100	12,500
27	14,600	54,700	271,000	108,000	169,000	111,000	113,000	29,800	62,600	27,300	27,900	12,500
28	13,800	54,000	288,000	103,000	174,000	101,000	117,000	29,200	54,000	25,500	26,100	12,900
29	12,500	54,700	301,000	101,000	-------	94,000	117,000	29,800	47,700	25,500	24,300	13,300
30	11,700	62,600	314,000	101,000	-------	90,800	106,000	31,100	43,000	24,900	23,100	13,300
31	15,600	-------	328,000	104,000	-------	96,400	-------	32,400	-------	24,300	20,800	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	18,300	11,000	14,100	0.366	0.42
November	82,200	15,100	40,800	1.06	1.18
December	328,000	49,100	148,000	3.84	4.43
January	342,000	45,700	173,000	4.49	5.18
February	174,000	113,000	139,000	3.61	3.76
March	297,000	90,800	194,000	5.04	5.81
April	258,000	104,000	154,000	4.00	4.46
May	90,000	29,200	50,200	1.30	1.50
June	113,000	34,400	68,900	1.79	2.00
July	39,000	22,500	28,100	.730	.84
August	34,400	20,800	28,500	.740	.85
September	18,600	12,100	15,600	.405	.45
The year	342,000	11,000	87,700	2.28	30.88

DAVIDSON RIVER NEAR BREVARD, N. C.

LOCATION.—Staff gage at highway bridge 1½ miles upstream from confluence with French Broad River, 2 miles downstream from mouth of Avery Creek, and 5½ miles northeast of Brevard, Transylvania County.

DRAINAGE AREA.—41 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,280 second-feet November 15 (gage height, 4.40 feet); minimum, 43 second-feet September 27 (gage height, 0.62 foot).

1920–1927: Maximum discharge, estimated 3,450 second-feet December 14, 1920 (gage height, 7.50 feet); minimum, 15 second-feet September 19–21, 1925 (gage height, 0.34 foot).

REMARKS.—Records below 1,500 second-feet, good; others, fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	52	113	207	101	141	152	102	70	49	74	74
2	141	51	104	173	98	132	132	96	68	54	72	70
3	113	49	102	173	96	132	122	90	66	52	69	72
4	91	48	96	162	94	132	113	87	62	62	68	66
5	62	47	93	152	91	132	122	82	60	62	62	104
6	62	47	91	141	91	141	113	80	70	50	55	122
7	60	47	88	132	90	152	104	80	81	47	53	96
8	58	66	87	132	88	318	104	80	62	101	60	122
9	54	*232	91	122	90	379	141	78	60	232	72	113
10	53	99	90	122	87	288	113	77	58	122	113	88
11	53	80	84	113	82	246	113	74	72	318	259	81
12	54	78	99	122	94	246	104	74	74	184	162	75
13	93	69	220	141	196	303	102	72	62	162	132	70
14	72	80	162	173	141	379	101	69	62	94	113	66
15	55	681	152	113	113	274	99	68	74	122	104	59
16	82	524	141	132	104	232	102	67	75	132	104	54
17	66	245	122	141	102	207	98	67	85	98	113	53
18	56	376	113	113	101	184	94	66	132	173	162	56
19	52	220	104	104	141	173	104	64	94	152	122	62
20	50	184	104	102	122	173	102	64	78	88	113	54
21	49	162	104	99	113	162	122	64	70	122	94	52
22	49	152	132	98	113	152	162	64	69	113	69	49
23	51	152	104	96	220	152	122	64	61	94	61	49
24	82	141	152	94	220	162	104	67	101	90	59	47
25	66	152	617	96	173	152	104	63	74	81	59	46
26	59	246	501	104	162	152	101	61	77	78	63	45
27	54	184	288	113	141	152	99	59	61	75	84	44
28	51	152	562	113	132	141	96	59	59	75	61	45
29	50	132	379	132	-------	132	93	73	55	70	59	45
30	51	122	288	113	-------	141	113	85	58	63	104	45
31	56	-------	232	104	-------	152	-------	77	-------	69	113	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	141	49	66.0	1.61	1.86
November	681	47	162	3.95	4.41
December	617	84	181	4.41	5.08
January	207	94	127	3.10	3.57
February	220	82	121	2.95	3.07
March	379	132	194	4.73	5.45
April	162	93	112	2.73	3.05
May	102	59	73.3	1.79	2.06
June	132	55	71.7	1.75	1.95
July	318	47	106	2.59	2.99
August	259	53	93.8	2.29	2.64
September	122	44	67.5	1.65	1.84
The year	681	44	115	2.80	37.97

SOUTH FORK OF MILLS RIVER AT THE PINK BEDS, N. C.

LOCATION.—Water-stage recorder at The Pink Beds in Pisgah National Forest, 400 feet below Thompson Creek, and 9 miles north of Brevard, Transylvania County.

DRAINAGE AREA.—9.87 square miles.

RECORDS AVAILABLE.—February, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 317 second-feet November 15 (gage height, 4.42 feet); minimum, 4.8 second-feet September 25 (gage height, 2.09 feet).

1926–27: Maximum discharge, that of November 15, 1926; minimum, 2.5 second-feet July 22, 1926 (gage height, 0.76 foot).

REMARKS.—Records excellent except those above 150 second-feet and those for estimated periods, which are fair. Discharge, October 1–31, February 5–20, June 6–30, and July 3 to August 28 partly estimated because recorder was not operating properly.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.6	6.5	25	45	23	26	26	18.5	21	7.5	12.6	11.8
2	20	6.0	24	40	22	25	24	17.1	19.5	9.2	10.1	10.4
3	11.8	6.0	23	36	21	22	23	16.6	19.0	7.0	10.1	9.8
4	8.0	5.8	21	34	20	22	23	16.2	17.1	10.4	10.4	9.5
5	7.8	5.8	20	31	20	24	23	14.8	15.3	12.9	9.2	8.6
6	6.5	5.8	19.0	29	19.5	29	22	15.3	14.8	7.5	7.8	8.6
7	6.0	5.8	18.0	28	19.5	32	22	14.4	19.0	7.2	8.0	7.8
8	6.0	6.0	18.0	26	19.0	63	22	14.8	16.2	11.8	9.5	7.2
9	6.0	42	18.0	26	20	77	28	14.4	15.3	20	8.3	11.1
10	6.2	19.0	17.6	24	19.0	66	23	14.0	14.0	13.6	14.4	11.2
11	6.5	14.0	16.6	24	18.5	54	22	13.2	14.7	15.8	48	9.2
12	6.8	11.8	18.5	24	19.0	48	21	12.9	22	12.6	47	8.0
13	16.2	10.8	30	23	39	92	20	12.6	14.8	11.8	25	7.5
14	8.9	13.2	21	24	31	106	20	12.9	14.0	8.6	22	7.0
15	5.6	125	23	24	27	74	19.5	12.6	17.8	7.5	20	6.8
16	8.3	104	20	25	24	57	20	12.9	18.0	22	23	6.5
17	8.9	50	19.0	25	23	47	19.5	12.9	18.0	13.5	70	6.2
18	6.8	100	18.0	25	22	42	18.5	12.2	35	11.8	50	6.0
19	6.5	54	17.6	25	31	38	20	11.5	19.5	11.8	28	8.6
20	6.0	39	17.6	24	25	35	18.5	11.5	14.8	23	20	7.8
21	5.8	32	18.0	22	26	36	24	11.2	14.8	23	15.8	6.8
22	5.6	27	21	20	24	36	32	10.4	15.8	15.3	11.8	6.0
23	5.4	24	17.6	20	63	31	22	10.8	12.6	12.6	9.8	5.6
24	10.4	22	21	20	46	32	21	11.8	14.4	12.6	9.2	5.2
25	9.5	21	108	20	39	34	20	11.5	14.0	12.9	9.2	5.2
26	8.3	62	116	23	34	34	20	10.1	13.6	15.8	12.9	5.6
27	7.5	45	56	23	30	32	19.0	9.8	10.8	14.4	19.0	6.0
28	6.8	35	137	24	26	31	18.0	13.8	10.8	12.2	12.2	5.6
29	6.2	30	100	29	------	29	17.6	32	8.9	11.8	10.4	5.4
30	7.2	28	66	26	------	28	20	22	8.3	8.6	18.9	5.4
31	6.8	------	53	24	------	28	------	21	------	9.8	16.6	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	20	5.4	8.09	0.820	0.95
November	125	5.8	31.9	3.23	3.60
December	137	16.6	36.1	3.66	4.22
January	45	20	26.2	2.65	3.06
February	63	18.5	26.8	2.72	2.83
March	106	22	42.9	4.35	5.02
April	32	17.6	21.6	2.19	2.44
May	32	9.8	14.4	1.46	1.68
June	35	8.3	16.1	1.63	1.82
July	28	7.0	13.0	1.32	1.52
August	70	7.8	19.3	1.96	2.26
September	11.8	5.2	7.55	.765	.85
The year	137	5.2	22.0	2.23	30.22

SWANNANOA RIVER AT SWANNANOA, N. C.

LOCATION.—Staff gage at Swannanoa, Buncombe County, 1½ miles below North Fork and 2⅞ miles above Beetree Creek.

DRAINAGE AREA.—60 square miles.

RECORDS AVAILABLE.—May, 1907, to June, 1909; January, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,240 second-feet November 15 (gage height, 3.40 feet); minimum, 16 second-feet September 16, 17, and 25–30 (gage height, 0.20 foot).

1907–1909, 1926–27: Maximum discharge, not determined; maximum gage height, 7.8 feet February 15, 1908; minimum discharge, 7.6 second-feet July 20–22, 1926 (gage height, 0.02 foot).

REMARKS.—Records good. The city of Asheville diverts about 3 million gallons daily from North Fork for water supply. See report on North Fork of Swannanoa River for total diversion. Slight regulation caused by operation of sand and gravel plant 2 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	26	83	195	72	125	83	89	89	42	32	27
2	39	25	77	152	70	123	79	81	77	40	24	26
3	40	24	70	142	68	108	74	77	81	38	24	23
4	33	23	67	125	72	103	72	72	67	35	24	22
5	32	22	62	137	74	103	74	68	54	34	22	22
6	34	22	57	112	77	110	76	70	48	30	22	27
7	27	21	54	93	83	121	68	67	58	33	22	25
8	25	23	51	83	77	263	72	65	62	33	23	22
9	23	157	72	81	72	352	81	62	62	33	67	27
10	23	72	91	77	68	315	181	58	56	33	58	27
11	23	47	72	77	65	263	135	56	47	31	58	25
12	25	39	93	77	65	216	116	52	68	32	51	22
13	39	35	150	67	147	247	103	51	72	51	42	21
14	43	34	128	97	163	280	95	50	135	34	34	18
15	33	475	137	85	123	216	87	48	187	30	30	17
16	31	997	135	81	105	179	83	47	135	42	26	16
17	30	263	114	83	89	160	83	47	119	44	26	16
18	25	216	91	76	87	145	79	44	216	72	33	18
19	23	168	83	63	114	137	74	42	163	52	27	32
20	22	147	79	63	193	123	79	42	125	33	24	21
21	21	112	76	76	145	116	93	44	105	34	24	18
22	22	93	112	74	128	125	201	43	93	35	22	18
23	21	83	99	70	391	112	135	39	91	33	20	18
24	35	79	145	72	315	110	114	39	70	26	19	17
25	39	79	497	74	231	103	105	40	65	24	19	16
26	32	85	520	79	176	99	99	36	62	25	23	16
27	26	130	280	76	152	93	91	33	51	48	38	16
28	25	108	887	68	133	87	83	42	47	30	45	16
29	24	99	453	85	------	83	79	77	42	24	39	16
30	23	95	280	79	------	83	103	74	39	23	36	16
31	24	------	231	81	------	87	------	103	------	40	33	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	43	21	28.8	May	193	33	56.7
November	997	21	127	June	216	39	86.2
December	887	51	172	July	72	23	35.9
January	195	63	90.3	August	67	19	31.8
February	391	65	127	September	32	16	20.7
March	352	83	154				
April	201	68	96.6	The year	997	16	85.3

NORTH FORK OF SWANNANOA RIVER NEAR BLACK MOUNTAIN, N. C.

LOCATION.—Water-stage recorder one-fourth mile downstream from emergency pumping plant of Asheville Water Department and 3 miles northwest of Black Mountain, Buncombe County.

DRAINAGE AREA.—23 square miles.

RECORDS AVAILABLE.—January, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,980 second-feet November 15 (gage height, 5.47 feet); minimum, 1.48 second-feet May 27 (gage height, 0.97 foot).

1926–27: Maximum discharge, that of November 15, 1926; minimum, 0.73 second-foot July 20 and 21, 1926 (gage height, 0.88 foot).

REMARKS.—Records good. The city of Asheville diverted 3.1 million gallons daily (4.8 second-feet) for water supply; also by operation of emergency pumping plant October 1, 1926, to May 25, 1927, 190.6 million gallons additional.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Ju'y	Aug.	Sept.
1	15.6	11.3	45	99	39	65	39	48	78	14.3	8.4	7.7
2	21	10.2	41	83	38	59	37	42	42	14.3	6.8	6.4
3	24	9.8	38	72	38	51	34	41	36	12.2	5.95	5.75
4	17.6	9.2	34	65	44	50	32	31	27	11.5	6.3	5.05
5	15.6	8.0	31	59	42	50	34	28	17.9	10.5	5.95	4.9
6	16.0	7.6	29	54	48	57	37	23	13.2	10.5	5.75	5.4
7	13.6	7.2	26	49	56	60	32	22	34	10.5	5.05	5.05
8	11.6	7.4	24	45	48	145	32	21	24	14.3	13.6	9.5
9	10.0	48	36	42	42	170	39	18.5	34	12.0	8.4	7.7
10	9.4	41	45	39	39	164	107	16.1	31	12.0	6.8	6.3
11	9.8	26	38	32	37	132	80	15.0	25	12.5	12.5	5.4
12	10.5	19.6	40	31	34	112	65	12.2	47	19.4	14.3	4.9
13	18.7	17.3	74	29	68	132	56	11.5	48	25	10.5	4.55
14	24	17.3	65	45	99	174	51	11.0	67	14.3	8.6	4.2
15	16.0	771	65	36	70	123	48	10.0	104	12.5	7.7	3.90
16	14.4	415	60	36	59	99	45	9.1	91	14.3	7.2	3.75
17	12.8	132	53	32	54	85	44	8.2	64	12.5	7.7	3.40
18	11.3	109	48	30	50	74	40	6.8	109	28	7.7	6.7
19	9.8	83	44	29	64	67	39	6.1	104	22	7.2	5.05
20	9.0	65	40	34	101	62	38	5.25	72	13.2	6.4	4.55
21	8.0	59	39	44	74	59	46	5.4	59	12.0	5.95	3.90
22	7.9	49	57	40	65	59	104	4.2	51	12.0	5.4	3.40
23	7.6	45	48	38	221	54	72	3.6	45	11.2	5.65	3.40
24	9.8	40	65	39	170	51	62	3.1	39	9.5	4.7	3.25
25	15.6	38	358	41	117	49	56	3.25	36	8.6	4.4	3.10
26	12.5	68	303	42	96	48	51	2.95	30	10.1	4.4	3.10
27	11.0	76	151	39	80	46	49	1.91	25	9.8	9.1	3.10
28	10.0	57	326	37	68	44	46	2.55	21	7.7	14.3	2.95
29	9.4	50	228	46	------	41	46	51	18.5	6.6	9.5	2.95
30	10.0	50	154	48	------	40	50	46	15.4	6.3	7.9	2.65
31	10.0	------	120	48	------	39	------	80	------	7.7	8.7	------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	24	7.6	13.0	May	80	1.91	19.0
November	771	7.2	78.2	June	109	13.2	46.9
December	358	24	87.3	July	28	6.3	12.8
January	99	29	45.3	August	14.3	4.4	7.81
February	221	34	70.0	September	9.5	2.65	4.73
March	170	39	79.4				
April	107	32	50.4	The year	771	1.91	42.7

BEETREE CREEK NEAR SWANNANOA, N. C.

LOCATION.—Water-stage recorder 200 feet upstream from intake to Asheville water supply, 1,000 feet upstream from Beetree Reservoir, and 4 miles north of Swannanoa, Buncombe County.

DRAINAGE AREA.—5.7 square miles.

RECORDS AVAILABLE.—February, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 362 second-feet November 15 (gage height, 4.10 feet); minimum, 0.85 second-foot September 29 and 30 (gage height, 0.40 foot).

1926–27: Maximum discharge, that of November 15, 1926; minimum 0.67 second-foot July 22, 1926 (gage height, 0.34 foot).

REMARKS.—Records good except those for September 21–26, which are estimated.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.50	2.85	11.1	23	9.8	17.4	9.6	9.0	10.4	5.7	2.70	2.60
2	5.8	2.65	10.0	19.8	9.7	16.0	8.9	8.3	9.3	5.3	2.00	1.56
3	6.8	2.55	9.3	17.6	9.6	14.5	8.5	7.9	9.3	4.65	1.90	1.45
4	5.5	2.45	8.8	16.2	10.0	14.5	8.0	7.8	8.2	4.15	2.30	1.37
5	5.3	2.35	8.4	14.3	9.4	14.3	9.6	7.4	7.1	3.80	2.10	1.30
6	5.5	2.30	8.0	13.2	9.6	16.2	9.3	7.0	6.6	3.60	1.76	1.34
7	4.40	2.20	7.4	11.8	10.1	17.9	8.5	6.8	9.1	4.30	1.68	2.20
8	3.85	3.05	7.4	10.9	9.4	30	8.6	6.6	7.7	4.80	2.08	3.15
9	3.35	9.9	10.1	10.3	9.1	57	9.8	6.4	8.9	4.20	3.10	2.15
10	3.10	5.5	9.6	9.4	9.3	45	16.2	6.4	7.7	3.85	2.10	1.80
11	3.05	5.0	9.1	8.6	9.0	33	14.7	5.8	6.6	3.90	4.90	1.64
12	2.95	4.70	10.4	8.2	8.9	28	13.9	5.4	7.9	3.35	3.28	1.49
13	8.3	4.65	14.7	8.4	18.4	26	13.2	5.3	8.2	3.25	2.35	1.34
14	5.8	4.70	14.5	11.8	20.0	26	12.6	5.4	13.4	3.05	2.10	1.19
15	4.60	93	15.8	7.8	17.4	24	11.7	5.0	19.8	2.85	2.20	1.08
16	4.35	108	14.7	8.8	15.8	21	11.1	5.1	21	3.15	1.80	1.02
17	4.15	33	13.5	8.6	14.3	19.2	10.6	4.90	17.6	3.10	2.10	.98
18	3.55	28	12.2	8.5	13.3	17.9	10.0	4.80	25	12.4	1.80	.95
19	3.15	23	10.9	8.3	20.0	16.2	9.6	4.50	23	4.80	1.64	1.37
20	3.00	18.6	10.4	8.9	26	14.5	9.1	4.30	18.1	3.60	1.56	1.26
21	2.80	15.6	10.4	9.0	21	14.5	9.8	4.15	15.6	3.30	1.49	1.19
22	2.60	13.7	13.5	8.6	19.2	13.7	14.7	3.95	14.1	3.15	1.41	1.12
23	2.50	12.2	11.3	8.5	51	12.8	11.7	3.80	12.2	3.00	1.37	1.05
24	3.25	10.9	13.7	8.4	42	12.4	10.8	3.85	10.3	2.60	1.30	1.02
25	3.70	10.1	43	8.4	31	11.5	10.6	4.05	9.1	2.40	1.56	.98
26	2.95	13.7	80	9.7	24	11.7	10.0	3.70	8.3	2.53	1.49	.95
27	2.80	14.5	36	9.4	21	10.6	9.6	3.30	7.1	2.55	2.66	.92
28	2.70	13.2	66	9.1	18.6	10.3	9.0	4.20	6.4	2.15	2.85	.88
29	2.70	12.6	54	10.4	-------	9.7	8.5	12.0	5.7	1.95	1.72	.85
30	2.65	12.6	35	10.6	-------	9.4	9.6	8.3	5.2	1.90	1.64	.85
31	2.85	-------	28	10.4	-------	10.0	-------	11.3	-------	2.48	2.00	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	8.3	2.50	3.95	0.693	0.80
November	108	2.20	16.2	2.84	3.17
December	80	7.4	19.6	3.44	3.97
January	23	7.8	10.9	1.91	2.20
February	51	8.9	17.4	3.05	3.18
March	57	9.4	19.2	3.37	3.88
April	16.2	8.0	10.6	1.86	2.08
May	12	3.30	6.02	1.06	1.22
June	25	5.2	11.3	1.98	2.21
July	10.4	1.90	3.67	.644	.74
August	4.90	1.30	2.09	.367	.42
September	3.15	.85	1.37	.240	.27
The year	108	.85	10.1	1.77	24.14

PIGEON RIVER NEAR HEPCO, N. C.

LOCATION.—Water-stage recorder three-fourths of a mile downstream from Jonathan Creek and 2½ miles upstream from Hepco, Haywood County, at mouth of Fines Creek.

DRAINAGE AREA.—342 square miles.

RECORDS AVAILABLE.—July to September, 1927.

EXTREMES.—Maximum discharge during period, 2,400 second-feet, August 10 (gage height, 4.61 feet); minimum, 169 second-feet September 26 (gage height, 1.12 feet).

REMARKS.—Records good. Diurnal fluctuation during low stages due to storage at Lake Junaluska and operation of mill at Canton.

Daily and monthly discharge, in second-feet, 1927

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1		553	343	11		1,180	290	21		343	233
2		342	307	12		1,400	260	22		324	220
3		275	428	13		822	246	23		290	220
4		343	452	14		502	233	24		275	220
5		362	362	15		502	233	25		275	196
6		275	307	16		482	220	26	290	307	208
7		260	290	17		553	220	27	275	452	208
8		428	290	18		528	208	28	275	362	208
9		384	307	19		405	260	29	290	290	208
10		324	307	20		405	275	30	343	275	196
								31	384	502	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
July 26–31	384	275	310	0.906	0.20
August	1,400	260	452	1.32	1.52
September	452	196	265	.775	.86

PIGEON RIVER NEAR CRABTREE, N. C.

LOCATION.—Chain gage at highway bridge 1½ miles upstream from mouth of Crabtree Creek and 2 miles south of Crabtree, Haywood County.

DRAINAGE AREA.—244 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,220 second-feet December 28 (gage height, 5.84 feet); minimum, 63 second-feet October 20 and December 5 and 12 (gage height, 1.24 feet).

1920–1927: Maximum discharge, 7,800 second-feet, revised determination, January 11, 1924 (gage height, 8.4 feet); minimum, 46 second-feet September 10, 1925 (gage height, 1.00 foot).

REMARKS.—Records good. During low stages there is considerable diurnal regulation from dams on Pigeon River and tributaries.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	159	121	353	695	510	620	545	366	341	163	330	223
2	159	102	295	735	410	545	341	335	360	214	209	258
3	121	128	228	582	404	545	404	295	312	284	223	258
4	118	128	83	545	372	510	410	318	247	228	205	247
5	125	110	67	436	353	475	410	306	253	214	205	191
6	107	94	89	475	397	582	378	301	214	196	148	191
7	118	99	183	695	385	658	378	391	232	196	159	167
8	115	87	187	378	324	1,400	391	898	295	175	159	171
9	91	852	200	372	353	2,110	545	475	253	191	253	191
10	89	658	335	360	341	1,400	545	318	242	237	209	175
11	99	205	237	330	324	1,120	442	372	582	279	735	175
12	134	159	73	318	318	985	385	335	510	658	1,210	125
13	219	118	263	366	404	1,080	289	279	658	279	545	118
14	273	138	545	545	940	1,300	372	219	385	273	324	159
15	121	840	468	775	449	985	341	138	582	232	372	148
16	128	1,910	468	855	430	855	385	219	410	582	273	148
17	113	582	360	545	430	815	385	306	341	279	353	167
18	125	735	366	366	456	855	341	372	341	232	385	138
19	77	1,080	330	273	423	775	391	301	510	209	258	121
20	68	940	258	312	475	695	416	219	456	205	295	183
21	99	582	295	306	510	620	397	258	695	228	228	148
22	96	385	268	268	620	658	468	247	855	268	187	167
23	81	341	301	219	2,660	545	475	214	468	253	205	148
24	141	330	404	228	1,120	545	436	191	341	196	163	131
25	155	335	620	306	378	475	391	284	284	175	171	121
26	121	545	1,210	295	449	545	775	237	258	179	247	128
27	104	510	1,400	223	735	510	366	167	247	191	263	121
28	118	404	3,610	735	582	475	330	263	253	151	242	128
29	121	391	2,660	545	-------	468	330	1,120	242	167	200	144
30	104	219	1,500	404	-------	475	353	620	175	183	183	125
31	96	-------	695	468	-------	510	-------	372	-------	289	179	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	273	68	122	0.500	0.58
November	1,910	87	438	1.80	2.01
December	3,610	67	592	2.43	2.80
January	855	219	450	1.84	2.12
February	2,660	318	555	2.27	2.36
March	2,110	468	779	3.19	3.68
April	775	289	414	1.70	1.90
May	1,120	108	346	1.42	1.64
June	855	175	378	1.55	1.73
July	658	151	245	1.00	1.15
August	1,210	148	294	1.20	1.38
September	258	118	164	.672	.75
The year	3,610	67	397	1.63	22.10

PIGEON RIVER NEAR MOUNT STERLING, N. C.

LOCATION.—Water-stage recorder just upstream from mouth of Hurricane Creek, 5 miles southeast of Mount Sterling, Haywood County.

DRAINAGE AREA.—453 square miles.

RECORDS AVAILABLE.—September, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,350 second-feet November 15 (gage height, 7.55 feet); minimum, 187 second-feet October 22 (gage height, 1.28 feet).

1924–1927: Maximum discharge, 9,060 second-feet January 18, 1926 (gage height, 7.86 feet); minimum, 41 second-feet September 8, 1925 (gage height, 0.62 foot).

REMARKS.—Records good except those for January 29, 30, February 24–28, March 19–21, 23–28, April 3–8, and August 14–26, which are estimated. Slight diurnal fluctuation caused by operation of Hepco power plant and mills. Water is sometimes released from Lake Junaluska during low-water period.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	264	246	710	1,790	742	1,060	845	810	990	480	880	558
2	346	246	645	1,500	742	990	775	678	810	505	530	480
3	346	227	615	1,310	678	990	775	615	710	505	412	558
4	284	220	585	1,310	710	990	775	615	678	480	505	615
5	284	224	558	1,140	678	990	845	585	615	435	530	558
6	284	217	530	1,060	742	1,140	810	585	558	435	458	458
7	284	224	505	990	742	1,310	775	585	742	435	390	435
8	246	210	505	915	678	2,690	775	558	645	480	435	435
9	246	1,160	615	880	615	3,940	880	530	615	505	645	435
10	227	775	775	845	710	2,940	880	530	615	615	615	435
11	220	458	615	775	645	2,340	775	505	645	558	1,350	458
12	246	390	585	678	615	1,900	742	480	990	585	1,640	390
13	381	346	1,260	775	1,220	1,900	710	480	742	585	1,060	346
14	435	325	1,310	990	1,400	2,340	710	480	810	585	775	346
15	304	1,280	1,060	845	1,140	1,790	678	458	1,140	676	845	325
16	264	3,790	1,060	558	880	1,590	645	458	1,140	990	775	325
17	264	1,310	880	775	810	1,500	645	458	880	615	775	304
18	246	1,340	810	710	742	1,310	645	458	1,500	915	775	304
19	227	1,220	742	710	742	1,310	645	435	1,400	775	742	390
20	227	915	710	678	710	1,220	710	435	1,060	558	678	390
21	220	810	775	678	678	1,140	915	480	880	585	645	346
22	210	710	1,690	645	678	1,220	1,690	412	810	710	585	304
23	213	645	1,140	645	3,070	1,140	1,060	412	775	615	615	304
24	224	615	1,060	678	1,590	1,140	880	412	710	558	585	304
25	368	615	3,100	678	845	990	810	615	645	480	585	284
26	304	1,070	5,110	710	915	1,060	775	505	615	435	775	264
27	246	1,500	2,570	678	1,220	1,060	710	412	585	412	915	284
28	246	990	4,760	710	1,440	880	678	435	558	390	845	284
29	246	810	4,430	810	-------	845	645	1,450	530	390	585	284
30	227	810	2,690	845	-------	915	710	1,500	505	390	505	284
31	246	-------	2,110	845	-------	990	-------	1,310	-------	505	645	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	435	210	270	0.596	0.69
November	3,790	210	790	1.74	1.94
December	5,110	505	1,440	3.18	3.67
January	1,790	558	876	1.93	2.22
February	3,070	615	931	2.05	2.14
March	3,940	845	1,470	3.25	3.75
April	1,690	645	797	1.76	1.96
May	1,500	412	603	1.33	1.53
June	1,500	505	797	1.76	1.96
July	990	390	555	1.23	1.42
August	1,640	390	713	1.57	1.81
September	615	264	383	.845	.94
The year	5,110	210	802	1.77	24.03

PIGEON RIVER AT HARTFORD, TENN.

LOCATION.—Staff gage at highway bridge at Hartford, Cocke County. Prior to September 9, 1927, tape gage at same site was used. Zero of both gages is 1,245.84 feet above mean sea level.

DRAINAGE AREA.—538 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,820 second-feet February 23 (gage height, 7.2 feet); minimum, 222 second-feet October 19 and 24 (gage height, 1.82 feet).

1925–1927: Maximum discharge, 9,060 second-feet January 18, 1926 (gage height, 8.6 feet); minimum, 96 second-feet August 30, 1925 (gage height, 1.32 feet).

REMARKS.—Records fair. Discharge estimated November 27, December 14, and June 27 to July 24. Some regulation during low water caused by operation of power and mill dams above gage.

Daily and monthly discharge, in second feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	312	312	765	1,860	1,120	1,420	980	808	2,120	550	462	615
2	385	312	685	1,630	1,160	1,420	892	725	1,740	600	385	490
3	335	290	650	1,420	1,120	1,310	850	765	1,420	900	462	550
4	312	290	550	1,310	1,020	1,160	850	685	1,260	700	550	892
5	274	286	808	1,160	1,120	1,020	935	650	935	600	520	808
6	312	290	615	1,120	1,120	1,520	892	725	892	550	462	550
7	490	266	550	1,020	1,360	1,860	892	650	808	500	360	490
8	246	232	490	935	1,210	5,540	980	615	685	550	385	550
9	243	1,120	685	892	1,120	3,660	1,070	582	550	600	650	550
10	236	850	1,020	808	1,120	3,510	1,120	550	685	700	520	490
11	243	582	892	725	1,120	2,640	1,020	490	490	650	808	490
12	254	462	685	582	980	1,860	892	490	2,240	650	1,740	490
13	335	410	1,360	725	1,420	2,120	850	490	1,260	650	1,360	410
14	520	385	1,750	1,020	1,990	1,310	808	462	1,260	650	725	385
15	360	410	1,210	1,020	1,420	1,990	725	490	1,860	950	582	360
16	258	4,260	1,120	650	1,260	1,860	685	520	2,120	1,200	650	360
17	254	1,420	1,020	765	1,120	1,630	615	550	1,990	800	1,070	335
18	243	1,210	892	808	1,020	1,630	520	490	3,810	1,000	850	335
19	236	1,360	765	725	1,160	1,520	520	435	2,380	1,200	615	725
20	312	980	765	685	1,120	1,260	808	410	1,860	850	582	520
21	254	850	808	765	980	1,210	935	360	1,740	650	550	435
22	222	725	2,120	725	935	1,160	1,020	335	1,520	800	462	385
23	240	650	1,360	725	4,740	1,120	980	410	1,160	700	615	385
24	232	582	1,210	808	4,740	1,120	980	435	850	650	650	360
25	266	615	2,510	765	3,810	1,020	892	490	685	582	490	335
26	335	685	5,220	850	2,640	892	850	462	650	490	850	312
27	278	2,380	2,920	1,070	1,990	1,020	808	490	615	462	850	335
28	282	1,120	4,580	892	1,420	935	725	490	600	435	765	312
29	262	892	4,580	1,120	-------	892	685	1,420	600	385	582	312
30	266	850	2,920	1,070	-------	892	808	2,240	600	335	490	312
31	312	-------	2,240	1,210	-------	1,020	-------	2,920	-------	360	685	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	520	222	294	0.546	0.63
November	4,260	232	836	1.55	1.73
December	5,220	490	1,540	2.86	3.30
January	1,860	582	963	1.79	2.06
February	4,740	935	1,620	3.01	3.13
March	5,540	892	1,660	3.09	3.56
April	1,120	520	853	1.59	1.77
May	2,920	335	698	1.30	1.50
June	3,810	490	1,310	2.43	2.71
July	1,200	335	668	1.24	1.43
August	1,740	360	669	1.24	1.43
September	892	312	463	.861	.96
The year	5,540	222	960	1.78	24.21

PIGEON RIVER AT NEWPORT, TENN.

LOCATION.—Chain gage at highway bridge 300 feet above Southern Railway bridge and 1 mile above Newport, Cocke County. Zero of gage is 1,040.03 feet above mean sea level.

DRAINAGE AREA.—655 square miles.

RECORDS AVAILABLE.—September, 1900, to October, 1901; January, 1903, to December, 1905; December, 1906, to December, 1909; and November, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,890 second-feet December 26 (gage height, 7.2 feet); minimum, 270 second-feet October 10, 20, 30, November 7, 8, and September 29 (gage height, 0.9 foot).

1903–1905, 1906–1909, 1918–1927: Maximum discharge, not determined; maximum stage, 17.0 feet April 2, 1920; minimum discharge, 102 second-feet October 3, 1919 (gage height, 0.4 foot).

REMARKS.—Records fair. Discharge interpolated February 10–12. Slight regulation caused by operation of power plants upstream. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	365	315	925	1,420	925	1,770	1,310	1,530	2,730	615	925	760
2	365	315	1,020	1,110	1,110	1,770	925	1,110	1,650	685	840	685
3	365	365	685	1,020	1,420	1,650	1,020	1,110	1,770	1,110	545	685
4	315	315	685	1,020	1,020	1,420	1,020	1,020	1,650	1,020	615	685
5	315	315	760	925	1,310	1,020	925	840	1,110	840	685	685
6	420	315	615	1,020	1,420	1,420	1,310	925	925	840	685	615
7	315	270	685	1,020	2,440	1,900	1,020	840	1,210	760	545	685
8	315	270	685	925	1,420	5,970	1,020	840	1,310	685	480	615
9	315	840	1,020	925	1,210	7,150	1,110	840	1,020	760	545	1,020
10	270	1,650	1,530	1,210	1,260	5,970	1,210	760	1,020	840	925	925
11	315	1,420	1,530	1,420	1,320	3,660	1,110	760	925	760	840	760
12	315	1,020	2,030	925	1,370	2,730	925	685	1,020	760	2,580	685
13	420	615	2,730	840	1,420	2,440	1,020	760	1,900	685	1,210	685
14	420	545	2,300	840	2,880	3,340	925	760	1,420	925	1,020	615
15	545	480	2,160	840	2,030	2,730	840	615	2,030	760	840	420
16	315	7,980	1,650	1,020	1,210	2,160	925	685	2,730	760	760	420
17	315	2,030	1,530	1,020	1,020	2,160	760	615	2,160	685	840	420
18	315	1,420	1,110	840	1,020	1,770	840	685	2,580	760	840	365
19	315	1,020	1,020	760	1,110	1,770	840	685	2,730	1,310	760	365
20	270	1,020	1,020	925	1,530	1,650	760	545	2,160	925	760	760
21	315	925	1,110	1,020	1,210	1,420	840	615	1,420	760	615	615
22	315	1,210	2,730	840	925	1,530	3,340	545	1,420	615	685	480
23	315	1,020	2,160	760	2,030	1,310	2,030	615	1,310	685	615	420
24	315	1,020	3,030	840	6,160	1,310	1,650	615	1,210	685	545	420
25	420	1,020	3,660	760	2,730	1,420	1,310	840	1,210	685	480	365
26	420	760	9,890	1,020	2,030	1,210	1,020	1,020	1,020	545	545	365
27	315	2,580	6,160	925	2,030	1,310	925	925	1,020	615	1,020	365
28	315	1,650	3,030	840	1,900	1,110	1,020	1,210	840	480	1,020	315
29	315	1,020	7,770	760	-------	1,210	925	1,310	685	545	760	315
30	270	1,530	2,880	1,110	-------	1,110	840	1,900	760	480	685	315
31	315	-------	1,650	1,530	-------	925	-------	2,160	-------	545	615	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	545	270	340	0.519	0.60
November	7,980	270	1,180	1.80	2.01
December	9,890	615	2,250	3.44	3.97
January	1,530	760	982	1.50	1.73
February	6,160	925	1,700	2.60	2.71
March	7,150	925	2,200	3.36	3.87
April	3,340	760	1,120	1.71	1.91
May	2,160	545	915	1.40	1.61
June	2,730	685	1,500	2.29	2.56
July	1,310	480	746	1.14	1.31
August	2,580	480	801	1.22	1.41
September	1,020	315	561	.856	.96
The year	9,890	270	1,190	1.82	24.65

NOLICHUCKY RIVER AT POPLAR, N. C.

LOCATION.—Staff gage at Poplar, Mitchell County, 200 feet from Carolina, Clinchfield & Ohio Railroad depot.
DRAINAGE AREA.—609 square miles.
RECORDS AVAILABLE.—July, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 12,300 second-feet November 16 (gage height, 6.6 feet); minimum, 235 second-feet November 8 (gage height, 0.19 foot).
1925–1927: Maximum discharge, that of November 16, 1926; minimum, 89 second-feet September 7, 1925.
REMARKS.—Records good below 3,000 second-feet and fair for higher stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	417	306	910	1,810	1,200	1,400	1,080	1,260	2,430	610	805	705
2	440	319	858	1,460	1,080	1,400	965	1,080	1,740	658	658	520
3	488	300	755	1,400	1,020	1,400	910	965	1,740	658	520	440
4	387	294	755	1,260	1,020	1,200	858	965	2,270	610	574	464
5	387	276	705	1,200	1,020	1,330	910	910	1,740	538	592	440
6	387	294	705	1,080	1,140	1,530	1,020	858	1,260	512	504	480
7	319	276	658	965	1,960	1,880	858	858	1,530	520	480	504
8	282	270	658	858	1,600	3,500	805	805	1,330	705	574	488
9	294	395	705	755	1,260	3,690	1,020	805	1,140	658	755	520
10	276	1,140	1,740	858	1,140	3,500	2,110	858	1,080	705	658	658
11	319	592	1,200	755	1,020	2,600	1,880	858	965	755	705	574
12	380	440	1,020	610	1,020	2,270	1,400	705	910	592	755	464
13	529	372	1,880	858	1,670	2,110	1,200	705	910	805	658	432
14	583	358	1,810	1,020	2,600	2,430	1,080	705	910	601	592	395
15	456	658	1,530	965	1,670	2,110	1,020	755	1,400	529	592	352
16	380	9,200	1,460	520	1,400	1,740	965	658	1,530	858	488	332
17	358	2,770	1,200	1,080	1,200	1,600	965	658	1,200	705	456	326
18	294	1,880	1,020	858	1,020	1,460	910	658	1,880	1,080	965	326
19	326	1,880	965	805	1,020	1,330	965	610	1,600	1,810	574	417
20	282	1,330	965	805	3,310	1,260	1,200	610	1,530	805	504	410
21	300	1,140	910	755	2,110	1,260	1,880	610	1,260	610	456	365
22	270	965	1,330	755	1,670	1,400	5,520	583	1,140	705	440	380
23	294	858	1,140	755	3,500	1,200	2,950	565	1,400	1,810	417	358
24	345	858	1,020	805	4,890	1,140	1,960	574	1,080	965	380	358
25	480	805	2,600	858	2,600	1,140	1,670	755	910	705	380	313
26	464	910	6,400	858	2,110	1,080	1,460	705	858	610	410	313
27	372	1,740	2,600	910	1,740	1,020	1,330	583	805	574	472	326
28	345	1,140	4,080	805	1,460	965	1,260	610	705	520	504	313
29	326	1,020	4,680	1,020	-------	910	1,140	1,200	705	504	504	306
30	332	965	2,770	1,080	-------	910	1,080	3,880	658	504	755	313
31	332	-------	2,110	1,460	-------	965	-------	3,500	-------	705	1,080	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	583	270	369	0.606	0.70
November	9,200	270	1,130	1.86	2.08
December	6,400	658	1,650	2.71	3.12
January	1,810	520	967	1.59	1.83
February	4,890	1,020	1,730	2.84	2.96
March	3,690	910	1,670	2.74	3.16
April	5,520	805	1,410	2.32	2.59
May	3,880	565	963	1.58	1.82
June	2,430	658	1,290	2.12	2.36
July	1,810	504	740	1.22	1.41
August	1,080	380	587	.964	1.11
September	705	306	420	.690	.77
The year	9,200	270	1,070	1.76	23.91

NOLICHUCKY RIVER AT EMBREEVILLE, TENN.

LOCATION.—Chain gage on county highway bridge at Embreeville, Washington County, 3½ miles northwest of Erwin. Zero of gage is 1,513.04 feet above mean sea level.

DRAINAGE AREA.—795 square miles.

RECORDS AVAILABLE.—July, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,000 second-feet November 16 (gage height, 8.4 feet); minimum, 322 second-feet October 22 (gage height, 2.15 feet).

1920–1927: Maximum discharge, about 23,900 second-feet August 3, 1921 (gage height, about 11.0 feet); minimum, 85 second-feet September 8 and 9, 1925 (gage height, 1.60 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	510	410	1,140	2,230	2,230	1,670	1,190	1,480	4,110	770	1,060	2,010
2	545	392	1,080	1,800	1,670	1,800	1,240	1,240	2,530	725	862	1,730
3	582	374	930	1,600	1,540	1,600	1,140	1,140	7,950	826	685	570
4	442	392	880	1,480	1,480	1,600	1,030	1,140	3,810	725	725	535
5	475	368	832	1,420	1,480	1,800	1,080	1,080	2,610	685	725	535
6	475	356	785	1,300	1,600	1,800	1,480	1,030	2,610	645	645	608
7	410	344	742	1,190	5,240	2,530	1,300	980	2,010	645	608	570
8	350	344	742	1,080	2,840	5,000	1,190	980	1,870	910	570	570
9	356	442	980	1,080	2,080	5,490	1,140	930	1,540	862	910	570
10	344	1,190	2,840	1,030	1,800	4,770	2,680	930	1,350	910	960	570
11	380	660	1,800	880	1,600	3,320	3,600	930	1,290	815	1,010	645
12	442	545	1,420	785	1,360	2,840	2,080	880	1,180	725	1,010	535
13	510	516	2,080	1,240	1,240	2,230	1,670	832	1,120	815	815	500
14	742	475	2,530	1,240	4,110	2,840	1,480	832	1,060	685	725	468
15	582	475	2,080	1,140	3,490	2,680	1,300	832	1,730	645	725	435
16	475	10,800	1,670	880	2,380	2,230	1,240	832	1,870	960	645	435
17	442	3,060	1,480	1,140	1,670	2,080	1,190	785	1,540	910	608	405
18	410	1,670	1,300	1,190	1,540	1,800	1,140	742	1,540	770	685	405
19	404	1,030	1,190	1,140	1,600	1,670	1,140	742	3,100	1,290	770	468
20	339	1,540	1,140	1,030	4,110	1,600	1,360	785	2,150	960	685	500
21	334	1,300	1,190	1,030	2,840	1,540	2,680	742	1,600	725	608	468
22	322	1,190	1,600	1,030	2,230	1,800	7,650	700	1,470	770	608	435
23	339	1,030	1,600	980	5,740	1,480	4,320	660	1,730	2,150	570	405
24	374	930	1,360	1,030	6,800	1,360	2,530	742	1,350	1,060	535	375
25	510	880	1,940	1,080	3,660	1,420	2,080	1,080	1,180	862	500	375
26	545	980	6,800	1,140	2,840	1,300	1,800	930	1,120	725	570	375
27	475	2,380	3,320	1,190	2,380	1,240	1,670	785	960	685	862	375
28	392	1,540	3,830	1,190	1,940	1,190	1,480	832	910	645	910	375
29	374	1,300	6,800	1,420	-------	1,140	1,360	1,420	862	608	770	364
30	442	1,240	3,660	1,540	-------	1,140	1,240	7,080	815	608	608	364
31	404	-------	2,680	3,000	-------	1,140	-------	5,240	-------	770	1,470	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	742	322	443	0.557	0.64
November	10,800	344	1,270	1.60	1.78
December	6,800	742	2,010	2.53	2.92
January	3,000	785	1,270	1.60	1.84
February	6,800	1,240	2,620	3.30	3.44
March	5,490	1,140	2,130	2.68	3.09
April	7,650	1,030	1,860	2.34	2.61
May	7,080	660	1,270	1.60	1.84
June	7,950	815	1,950	2.45	2.73
July	2,150	608	836	1.05	1.21
August	1,470	500	756	.951	1.10
September	2,010	364	566	.712	.79
The year	10,800	322	1,410	1.77	23.99

NOLICHUCKY RIVER NEAR MORRISTOWN, TENN.

LOCATION.—Water-stage recorder at Jones bridge on main road between Morristown and Newport 3 miles below mouth of Bent Creek and 9 miles southeast of Morristown, Hamblen County. Zero of gage is 1,004.40 feet above mean sea level.

DRAINAGE AREA.—1,690 square miles, revised.

RECORDS AVAILABLE.—November, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 27,700 second-feet February 24 (gage height, 17.1 feet); minimum mean daily discharge, 235 second-feet September 26 (gage height, 1.67 feet; partly estimated).

1920–1927: Maximum discharge, that of February 24, 1927; minimum, 22 second-feet September 7 and 28, 1925 (gage height, 1.00 foot).

REMARKS.—Records good below 6,000 second-feet and fair above. Discharge estimated February 8–11, August 28, September 19 and 26. Considerable regulation at low water caused by operation of power plant 22 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	597	390	2,200	4,730	6,090	4,190	2,630	2,420	11,800	1,400	1,230	998
2	871	808	1,870	3,930	3,930	4,190	2,770	2,590	6,910	2,200	1,270	1,150
3	717	794	1,670	3,800	3,430	4,590	2,250	2,200	8,300	2,200	1,310	1,150
4	584	773	1,530	3,190	3,430	4,190	2,250	2,080	13,900	1,770	1,270	773
5	1,150	738	1,230	2,890	3,070	3,670	2,080	1,920	9,020	1,530	1,190	794
6	1,190	773	1,480	2,590	3,190	3,670	2,590	1,870	5,610	1,400	1,150	998
7	998	584	1,400	2,360	9,020	4,320	2,830	1,770	4,450	1,400	915	1,070
8	773	300	1,480	2,200	8,660	10,600	2,530	1,580	4,060	1,480	938	1,400
9	787	1,770	3,550	1,920	6,090	13,200	2,250	1,770	3,310	1,580	1,820	1,530
10	623	2,030	5,010	2,140	5,160	12,000	2,650	1,670	3,010	1,310	1,350	1,110
11	571	1,480	5,610	1,980	4,060	8,300	4,730	1,580	3,310	1,230	2,140	829
12	703	1,190	4,320	1,820	3,310	5,930	3,930	1,480	2,530	1,440	1,530	636
13	2,030	1,150	6,570	1,720	4,870	5,010	3,190	1,400	2,360	1,310	1,310	1,070
14	1,920	871	6,250	1,870	7,080	5,930	2,710	1,440	2,200	1,350	998	864
15	1,230	1,190	5,930	2,200	6,740	5,930	2,420	1,190	2,300	1,400	1,070	829
16	1,070	8,480	4,450	1,820	4,450	4,730	2,140	1,580	2,710	1,230	1,440	843
17	843	9,400	3,550	1,770	3,670	4,190	1,920	1,480	2,890	960	1,350	738
18	630	5,010	2,770	1,670	3,430	3,800	2,200	1,400	2,890	1,310	1,440	552
19	794	3,800	2,300	1,920	3,550	3,430	3,190	1,350	3,550	2,420	1,400	338
20	801	3,010	2,360	1,820	6,410	3,190	3,010	1,530	3,930	1,920	1,230	794
21	857	2,200	4,730	1,770	7,760	3,190	3,070	1,400	3,010	1,580	871	794
22	808	2,080	6,410	1,720	5,610	3,070	9,210	1,110	2,650	1,400	885	766
23	590	1,770	5,930	1,620	15,400	3,070	9,780	1,190	2,530	1,480	1,230	759
24	486	1,620	6,090	1,980	25,100	2,830	6,090	1,440	2,590	1,870	1,190	738
25	408	1,310	8,120	2,080	13,400	2,770	4,190	1,980	2,140	1,820	1,070	450
26	801	2,890	11,000	2,030	8,660	2,710	3,430	1,620	1,720	1,400	1,150	235
27	850	3,930	10,600	1,980	6,250	2,360	3,010	1,620	1,820	1,350	1,150	738
28	808	4,450	10,200	2,200	5,010	2,530	2,770	2,080	1,620	1,350	809	545
29	815	2,950	12,400	3,670	-------	2,300	2,530	5,160	1,480	1,270	468	506
30	745	2,300	10,200	4,730	-------	2,140	2,360	10,600	1,440	1,230	759	493
31	703	-------	6,740	7,420	-------	2,140	-------	15,900	-------	908	857	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,030	408	863	0.511	0.59
November	9,400	300	2,330	1.38	1.54
December	12,400	1,230	5,100	3.02	3.48
January	7,420	1,620	2,570	1.52	1.75
February	25,100	3,070	6,670	3.95	4.11
March	13,200	2,140	4,650	2.75	3.17
April	9,780	1,920	3,350	1.98	2.21
May	15,900	1,110	2,530	1.50	1.73
June	13,900	1,440	4,000	2.37	2.64
July	2,420	908	1,500	.888	1.02
August	2,140	468	1,190	.704	.81
September	1,530	235	816	.483	.54
The year	25,100	235	2,940	1.74	23.59

LITTLE PIGEON RIVER AT SEVIERVILLE, TENN.

LOCATION.—Staff gage at Eckel's farmhouse, half a mile below Sevierville, Sevier County, and confluence of East and West Forks of River. Zero of gage is 882.26 feet above mean sea level.

DRAINAGE AREA.—346 square miles.

RECORDS AVAILABLE.—November, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 15,700 second-feet February 23 (gage height, 10.4 feet); minimum, 48 second-feet September 27 (gage height, 0.72 foot).

1920–1927: Maximum discharge, 18,500 second-feet December 8, 1924 (gage height, 11.6 feet); minimum, 5 second-feet October 12 and November 3, 1923.

REMARKS.—Records fair. Operation of power plant on West Fork, 3 miles above Sevierville, causes considerable fluctuation during low water. Several flour mills on both forks cause some regulation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	160	304	592	1,070	1,910	802	592	1,030	1,910	250	878	134
2	272	138	495	878	1,320	915	528	730	802	266	495	104
3	244	142	462	730	1,150	915	462	625	840	495	346	952
4	206	130	394	660	1,070	1,070	418	528	695	382	695	1,150
5	92	107	358	592	1,030	1,070	424	495	528	288	660	592
6	175	64	394	528	1,150	1,230	695	495	462	244	400	430
7	126	78	358	462	3,030	1,230	592	462	1,070	266	310	400
8	95	83	328	430	1,700	7,840	560	418	695	322	304	364
9	74	1,150	2,020	394	1,150	6,600	560	364	560	592	592	346
10	66	765	2,020	418	1,150	3,630	592	316	560	592	560	250
11	74	462	1,320	406	1,150	1,700	592	328	495	592	528	228
12	86	334	1,030	272	1,070	1,320	560	334	2,620	495	990	222
13	107	260	3,790	310	2,750	1,070	495	260	1,320	394	592	170
14	107	216	2,490	592	2,370	1,800	462	294	952	299	430	126
15	95	282	1,320	625	1,500	1,320	495	272	1,800	255	625	114
16	122	2,250	990	625	1,070	1,070	424	255	1,600	228	528	122
17	66	878	802	592	915	915	418	260	1,150	346	592	134
18	78	952	660	495	915	802	370	255	1,910	266	462	92
19	72	802	592	430	840	730	430	216	1,410	592	462	160
20	78	625	418	462	878	660	364	266	990	334	412	150
21	78	528	952	695	802	660	462	277	840	244	328	134
22	70	418	2,020	625	730	625	5,220	228	765	216	266	98
23	74	418	1,070	560	9,780	528	1,500	206	625	394	206	92
24	70	238	1,320	878	3,320	528	990	211	528	277	180	104
25	216	346	6,200	990	1,800	528	802	495	495	233	155	62
26	160	1,030	5,030	952	1,320	462	660	495	495	150	190	76
27	110	1,500	1,800	915	1,070	462	592	294	430	155	322	72
28	86	1,230	6,000	765	840	424	528	304	370	134	244	80
29	101	660	4,480	1,230	-------	400	495	952	352	134	200	83
30	78	695	1,800	1,700	-------	394	560	1,150	277	134	126	64
31	107	-------	1,410	2,890	-------	430	-------	878	-------	180	126	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	272	66	114	0.329	0.38
November	2,250	64	570	1.65	1.84
December	6,200	328	1,710	4.94	5.70
January	2,890	272	747	2.16	2.49
February	9,780	730	1,710	4.94	5.14
March	7,840	394	1,360	3.93	4.53
April	5,220	364	728	2.10	2.34
May	1,150	206	442	1.28	1.48
June	2,620	277	918	2.65	2.96
July	592	134	314	.908	1.05
August	990	126	426	1.23	1.42
September	1,150	64	237	.685	.76
The year	9,780	64	766	2.21	30.09

SOUTH FORK OF HOLSTON RIVER AT RIVERSIDE, NEAR CHILHOWIE, VA.

LOCATION.—Chain gage at Riverside Bridge, half a mile downstream from Bebords flour mill and 5 miles southeast of Chilhowie, Smyth County.

DRAINAGE AREA.—94.5 square miles.

RECORDS AVAILABLE.—November, 1920, to September, 1927. June, 1907, to December, 1909, at site below mouth of Grose Creek 4½ miles downstream.

EXTREMES.—Maximum discharge during year, 2,340 second-feet February 23 (gage height, 5.55 feet); minimum, 10 second-feet October 5 and 22 (gage height, 0.59 foot).

1920–1927: Maximum discharge, 4,450 second-feet June 12, 1923 (gage height, 7.7 feet); minimum, caused by closing gates of dam above, 3.4 second-feet September 8, 1923 (gage height, 0.28 foot).

REMARKS.—Records good. Several small mills above gage cause considerable diurnal fluctuation during low water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	31	78	236	264	174	118	140	223	47	44	26
2	24	26	67	174	198	162	151	138	151	45	40	29
3	26	27	64	151	162	134	130	126	162	46	27	29
4	20	26	58	151	162	122	118	124	223	44	36	39
5	20	35	61	124	138	122	106	109	198	52	43	38
6	32	29	58	111	134	120	111	104	151	46	34	28
7	25	24	53	106	174	126	100	102	134	36	30	27
8	27	26	61	88	174	292	97	115	116	45	43	24
9	29	44	77	86	162	338	130	162	99	40	70	45
10	17	38	494	84	151	250	210	151	92	39	53	35
11	28	27	292	76	124	210	210	151	88	40	40	48
12	28	42	210	64	122	186	174	124	83	36	37	33
13	51	28	198	78	151	162	174	116	72	40	38	28
14	38	33	210	86	210	162	307	109	109	35	33	30
15	42	23	186	86	198	138	307	104	140	36	32	34
16	29	475	140	122	174	132	210	96	115	35	37	27
17	26	198	118	83	236	122	174	88	97	34	43	29
18	32	120	109	77	250	109	151	82	94	51	45	24
19	20	96	94	77	278	106	136	82	83	48	39	36
20	31	83	94	76	438	104	136	74	74	46	35	32
21	30	72	174	74	354	100	151	71	72	39	30	24
22	21	62	980	72	292	96	712	67	67	38	32	32
23	29	50	438	77	1,820	86	456	66	64	33	29	33
24	29	56	322	84	1,040	84	278	63	62	34	30	34
25	64	53	534	109	494	82	236	68	56	29	32	25
26	54	63	712	128	338	76	186	67	56	30	29	31
27	46	130	456	113	292	72	162	59	50	30	26	29
28	42	111	420	109	210	68	140	94	44	29	31	20
29	37	102	576	126	-------	67	115	92	47	34	34	23
30	44	83	386	151	-------	67	126	322	47	33	27	34
31	35	-------	292	338	-------	70	-------	338	-------	29	33	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	64	17	32.2	0.341	0.39
November	475	23	73.8	.781	.87
December	980	53	258	2.73	3.15
January	338	64	113	1.20	1.38
February	1,820	122	312	3.30	3.44
March	338	67	134	1.42	1.64
April	712	97	194	2.05	2.29
May	338	59	116	1.23	1.42
June	223	44	102	1.08	1.20
July	52	29	38.7	.410	.47
August	70	26	36.5	.386	.44
September	48	20	30.9	.327	.36
The year	1,820	17	119	1.26	17.05

SOUTH FORK OF HOLSTON RIVER AT BLUFF CITY, TENN.

LOCATION.—Staff gage at highway bridge at Bluff City, Sullivan County, 300 feet below Virginia & Southwestern Railroad bridge, and 1 mile below mouth of Indian Creek. Zero of gage is 1,368.09 feet above mean sea level.

DRAINAGE AREA.—828 square miles.

RECORDS AVAILABLE.—July, 1900, to September, 1927.

EXTREMES.—Maximum discharge during year, 16,300 second-feet February 23 (gage height, 11.4 feet); minimum, 180 second-feet October 10 (gage height, 0.00 foot).

1900–1927: Maximum discharge, not determined; maximum stage, 15.0 feet May 22, 1901; minimum discharge, 115 second-feet September 9, 1925 (gage height, −0.18 foot).

REMARKS.—Records below 6,000 second-feet, good; others, fair. Operation of small mills upstream causes some diurnal fluctuation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	275	480	1,040	3,060	3,870	2,340	1,200	1,810	4,440	620	455	360
2	505	455	885	2,450	2,690	2,120	2,230	1,620	2,690	620	560	315
3	295	405	815	2,120	2,010	1,910	2,010	1,440	3,060	1,040	405	315
4	210	382	745	1,810	2,230	1,810	1,530	1,360	2,930	745	430	315
5	192	382	680	1,710	2,570	1,710	1,360	1,440	2,930	620	455	315
6	258	360	780	1,530	2,230	2,230	1,360	1,360	2,230	560	405	295
7	315	360	745	1,360	4,590	1,620	1,360	1,200	2,570	560	360	275
8	275	338	680	1,280	3,730	4,890	1,280	1,200	2,010	620	360	315
9	210	338	885	1,200	2,810	5,670	1,360	2,690	1,710	560	405	455
10	180	480	8,540	1,120	2,120	4,010	3,060	2,230	1,530	532	620	815
11	240	430	4,890	1,120	1,910	2,930	3,190	1,710	1,620	480	620	455
12	225	360	2,570	960	1,710	2,450	2,340	1,530	3,320	560	455	360
13	815	360	2,690	960	1,620	2,120	1,810	1,360	1,910	505	405	338
14	1,440	360	3,450	1,120	3,590	2,120	3,320	1,200	1,530	455	382	315
15	850	360	2,570	960	3,060	2,230	3,190	1,120	2,630	455	360	295
16	505	4,740	2,230	620	2,340	1,810	2,230	1,040	2,010	455	360	225
17	455	3,730	1,910	960	2,120	1,710	1,910	1,040	1,620	430	338	275
18	405	1,810	1,620	1,200	2,690	1,620	1,710	960	1,440	455	405	275
19	360	1,280	1,280	1,200	2,930	1,360	1,810	885	1,530	1,120	680	455
20	360	960	1,200	1,120	8,540	1,360	1,620	815	1,360	815	680	480
21	405	815	1,440	1,120	5,670	1,280	4,010	1,040	1,200	532	455	315
22	360	712	12,300	1,040	3,870	1,360	9,800	1,280	1,200	455	405	315
23	360	620	7,150	1,040	10,900	1,280	6,810	815	1,040	620	338	295
24	360	560	4,010	1,040	14,100	1,200	3,870	780	960	532	382	295
25	505	560	7,660	1,360	6,470	1,120	2,810	815	885	430	338	258
26	885	680	11,200	1,620	4,590	1,040	2,230	1,040	815	405	338	210
27	745	1,810	7,150	1,530	3,450	1,040	1,810	885	780	405	480	204
28	560	1,910	4,740	1,360	2,810	960	1,710	960	712	382	360	225
29	455	1,440	7,320	2,010	-------	922	1,440	2,690	680	382	360	204
30	430	1,200	5,510	1,910	-------	885	1,360	7,320	680	405	338	275
31	430	-------	3,870	5,350	-------	885	-------	6,640	-------	405	338	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,440	180	447	0.540	0.62
November	4,740	338	956	1.15	1.28
December	12,300	680	3,630	4.38	5.05
January	5,350	620	1,520	1.84	2.12
February	14,100	1,620	3,970	4.79	4.99
March	5,670	885	1,940	2.34	2.70
April	9,800	1,200	2,520	3.04	3.39
May	7,320	780	1,690	2.04	2.35
June	4,440	680	1,800	2.17	2.42
July	1,120	382	554	.669	.77
August	680	338	428	.517	.60
September	815	204	328	.396	.44
The year	14,100	180	1,630	1.97	26.73

SOUTH FORK OF HOLSTON RIVER AT KINGSPORT, TENN.

LOCATION.—Water-stage recorder one-fourth mile downstream from Carolina, Clinchfield & Ohio Railroad bridge and half a mile upstream from Eastman Kodak plant at Kingsport, Claiborne County. Zero of gage is 1,188.79 feet above mean sea level.

DRAINAGE AREA.—1,960 square miles.

RECORDS AVAILABLE.—September, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 43,200 second-feet February 24 (gage height, 13.9 feet); minimum, 620 second-feet October 1 and 4 (gage height, 0.40 foot).

1925–1927: Maximum discharge, that of February 24, 1928; minimum, 350 second-feet October 7 and 12, 1925 (gage height, 0.15 foot).

REMARKS.—Records good below 20,000 second-feet except for periods of estimated flow; others, fair. Discharge estimated April 4–11, May 23–25, June 23 to July 2, July 4–18, July 20 to August 8, and August 10–15. Slight regulation during low water caused by power plants upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	716	1,030	2,620	6,990	8,720	5,590	2,980	3,670	12,000	1,860	1,780	1,130
2	1,090	1,120	2,360	5,590	6,050	5,370	4,290	3,570	7,970	2,190	1,700	1,070
3	1,220	1,080	2,140	4,820	4,930	4,710	3,870	3,080	13,500	3,270	1,700	1,090
4	776	990	1,990	4,400	5,150	4,290	3,370	2,890	10,600	2,020	1,620	1,090
5	752	964	1,880	4,080	5,590	4,080	3,080	2,980	7,970	1,860	1,620	1,000
6	938	925	1,920	3,570	5,150	3,980	2,980	2,710	6,050	1,700	1,550	964
7	912	1,000	1,860	3,180	10,600	4,290	2,890	2,620	6,280	1,620	1,550	1,030
8	836	764	1,780	2,890	9,760	9,760	2,800	2,890	5,200	1,620	1,480	1,090
9	716	1,390	3,470	2,710	6,750	12,900	3,370	4,180	4,400	1,550	1,430	1,230
10	704	1,560	16,000	2,710	5,370	10,300	7,970	3,870	3,980	1,550	2,020	1,440
11	668	1,490	9,760	2,620	4,820	7,970	8,720	3,270	3,870	1,550	2,020	1,490
12	812	1,180	6,050	2,360	4,180	6,280	5,820	2,890	4,400	1,550	1,700	1,270
13	2,070	1,090	6,510	2,190	4,820	5,480	4,600	2,620	4,400	1,550	1,400	1,200
14	2,710	1,090	7,470	2,620	9,500	5,590	5,040	2,440	4,500	1,480	1,260	1,090
15	1,920	1,200	6,510	3,470	7,720	5,700	5,370	2,360	5,370	1,400	1,190	1,060
16	1,390	12,300	5,700	3,080	5,940	4,930	4,180	2,280	5,370	1,330	1,200	964
17	1,260	9,240	4,500	2,890	5,370	4,500	3,670	2,280	4,290	1,260	1,150	990
18	1,070	4,820	3,870	2,800	5,370	4,180	3,770	2,190	4,080	1,700	2,170	925
19	1,040	3,770	3,270	2,620	6,050	3,870	4,600	2,090	4,400	4,180	2,360	1,040
20	951	2,890	2,980	2,530	15,700	3,570	3,980	1,990	3,870	2,360	1,960	1,190
21	1,070	2,360	4,290	2,530	12,300	3,470	5,590	2,100	3,370	1,700	1,550	1,040
22	873	2,140	19,100	2,440	8,470	3,770	16,700	2,100	3,080	1,620	1,390	1,030
23	824	1,920	12,900	2,360	19,500	3,470	14,700	1,780	2,890	3,080	1,260	899
24	977	1,780	7,970	2,440	33,100	3,270	8,470	1,700	2,710	2,530	1,230	886
25	1,040	1,750	13,500	2,710	16,000	3,180	6,280	1,730	2,530	1,860	1,200	836
26	1,610	2,360	21,700	2,980	10,800	2,980	5,150	2,190	2,360	1,860	1,110	764
27	1,540	4,600	14,100	2,980	8,220	2,800	4,400	2,020	2,190	1,860	1,830	860
28	1,270	4,400	12,000	2,800	6,750	2,710	3,870	2,890	2,020	1,860	1,340	752
29	1,130	3,470	17,400	3,770	------	2,440	3,470	6,180	1,860	1,860	1,180	824
30	1,080	2,980	12,600	4,820	------	2,440	3,470	22,100	1,780	1,780	1,160	812
31	1,230	------	8,720	12,300	------	2,440	------	18,400	------	1,780	1,080	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,710	668	1,140	0.582	0.67
November	12,300	764	2,590	1.32	1.47
December	21,700	1,780	7,640	3.90	4.50
January	12,300	2,190	3,560	1.82	2.10
February	33,100	4,180	9,020	4.60	4.79
March	12,900	2,440	4,850	2.47	2.85
April	16,700	------	5,320	2.71	3.02
May	22,100	------	3,870	1.97	2.27
June	13,500	------	4,910	2.51	2.80
July	4,180	------	1,920	.980	1.13
August	2,360	1,080	1,520	.776	.89
September	1,490	752	1,640	.531	.59
The year	33,100	668	3,910	1.99	27.08

HOLSTON RIVER NEAR ROGERSVILLE, TENN.

LOCATION.—Water-stage recorder at highway bridge 1,600 feet downstream from Austin mill and dam and 3 miles south of Rogersville, Hawkins County. Prior to October 1, 1926, staff gage at same site was used. Zero of both gages is 1,057.04 feet above mean sea level.

DRAINAGE AREA.—3,060 square miles.

RECORDS AVAILABLE.—March, 1902, to September, 1927.

EXTREMES.—Maximum discharge during year, 63,700 second-feet February 24 (gage height, 17.0 feet); minimum, 654 second-feet October 12 (gage height, 0.04 foot).

1904–1927: Maximum discharge, 70,900 second-feet January 29, 1918 (gage height, 20.0 feet; old gage); minimum, 438 second-feet September 9, 1925.

Maximum stage known, 38.4 feet March 10, 1867.

REMARKS.—Records good below 35,000 second-feet and fair above. Discharge estimated August 24–27. Some diurnal fluctuation during low water caused by operation of power plants upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	852	1,540	4,330	12,000	14,900	8,750	4,330	5,520	22,300	2,350	2,040	1,300
2	828	1,440	3,800	9,690	10,300	8,140	6,840	5,900	13,000	2,190	2,270	1,360
3	1,250	1,510	3,300	7,840	8,140	7,550	7,550	5,140	20,200	4,330	2,040	1,260
4	1,250	1,420	2,940	6,980	7,550	6,700	5,900	4,900	19,800	3,500	2,120	1,460
5	912	1,290	2,680	6,360	8,440	6,160	4,900	5,390	14,100	2,680	1,960	1,280
6	960	1,250	2,680	5,770	7,840	6,030	4,670	5,260	10,300	2,350	1,850	1,140
7	1,040	1,260	2,850	5,140	11,000	6,160	4,900	4,780	10,700	2,190	1,610	1,120
8	984	1,210	2,680	4,560	14,100	11,700	4,560	4,670	10,000	2,120	1,480	1,210
9	924	1,620	4,900	4,220	10,700	19,400	4,670	6,980	8,140	2,350	1,830	1,570
10	804	4,440	21,900	4,010	8,140	16,700	8,750	7,840	7,120	2,190	2,190	1,400
11	804	2,680	20,200	4,010	7,260	12,700	14,500	6,300	6,700	2,190	2,350	1,720
12	792	2,120	11,300	3,760	6,430	10,000	10,700	5,260	6,160	2,040	2,190	1,680
13	1,610	1,740	11,000	3,210	6,840	8,440	7,840	4,440	6,840	1,960	2,040	1,470
14	4,220	1,620	12,000	3,300	12,000	8,140	7,260	4,010	5,900	1,890	1,760	1,350
15	3,600	1,710	10,700	4,330	13,000	8,750	11,300	3,700	7,120	1,890	1,830	1,260
16	2,430	9,370	9,370	4,670	10,000	7,840	8,440	3,500	7,550	1,830	1,570	1,210
17	1,850	19,400	7,550	3,800	8,440	6,980	6,560	3,400	6,560	1,830	1,480	1,090
18	1,620	9,690	6,030	4,010	8,440	6,300	5,770	3,210	5,520	1,820	4,220	1,080
19	1,420	6,160	5,260	4,010	10,000	5,770	8,140	3,030	5,960	3,900	3,800	996
20	1,300	4,780	4,560	3,860	19,100	5,260	8,140	2,940	5,390	3,210	3,030	1,120
21	1,280	3,700	9,370	3,700	23,100	4,960	8,440	2,850	4,670	2,430	2,430	1,220
22	1,280	3,210	32,600	3,700	14,900	4,900	20,200	3,210	4,220	2,040	1,960	1,110
23	1,400	2,850	39,800	3,600	26,000	5,020	27,800	2,850	4,120	2,600	1,760	1,060
24	1,310	2,510	17,100	3,600	56,500	4,560	16,000	2,600	3,900	3,600	1,480	960
25	1,610	2,350	23,500	3,800	30,000	4,440	10,700	2,600	3,500	2,600	1,470	936
26	1,810	3,400	36,700	4,440	18,300	4,220	8,440	2,850	3,120	2,120	1,460	912
27	2,510	7,120	32,200	4,560	13,400	3,900	7,120	3,030	2,940	1,890	2,350	852
28	2,270	7,840	21,000	4,440	10,700	3,700	6,160	3,800	2,760	1,710	2,190	900
29	1,810	6,300	27,800	5,900	------	3,500	5,520	8,440	2,600	1,610	1,750	840
30	1,550	5,020	24,300	7,840	------	3,300	4,900	33,600	2,430	1,610	1,640	888
31	1,530	------	16,000	12,700	------	3,300	------	38,000	------	1,550	1,480	------

Month	Maximum	Minimum	Mean	Per square mile	Run off in inches
October	4,220	792	1,540	0.503	0.58
November	19,400	1,200	4,020	1.31	1.46
December	39,800	2,680	13,900	4.54	5.23
January	12,700	3,210	5,280	1.73	1.99
February	56,500	6,430	14,100	4.61	4.80
March	19,400	3,300	7,200	2.35	2.71
April	27,800	4,330	8,700	2.84	3.17
May	38,000	2,600	6,450	2.11	2.43
June	22,300	2,430	7,790	2.55	2.84
July	4,330	1,550	2,340	.765	.88
August	4,220	1,460	2,050	.670	.77
September	1,720	840	1,190	.389	.43
The year	56,500	792	6,160	2.01	27.29

MIDDLE FORK OF HOLSTON RIVER AT CHILHOWIE, VA.

LOCATION.—Chain gage on highway bridge at Chilhowie, Smyth County.
DRAINAGE AREA.—144 square miles.
RECORDS AVAILABLE.—June, 1907, to December, 1909, and November, 1920, to September, 1927.
EXTREMES.—Maximum discharge during year, 5,460 second-feet December 25 and 26 (gage height, 8.86 feet); minimum, estimated 35 second-feet October 21, 22, and 28.

1907–1909, 1920–1927: Maximum discharge, 7,710 second-feet June 12, 1923 (gage height, 11.4 feet); minimum, 13 second-feet July 28, 1926 (gage height, 0.70 foot).

REMARKS.—Records to September 3, poor; others, good. Operation of small mills upstream causes some diurnal fluctuation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	40	77	400	540	332	290	310	e620	106	101	e55
2	55	48	86	468	490	310	310	310	e270	116	75	e50
3	48	44	77	290	468	290	310	290	e520	111	70	42
4	40	51	68	e220	468	236	290	270	690	116	75	46
5	48	59	72	e200	445	203	290	259	640	127	80	48
6	51	55	81	e180	422	186	310	214	e490	133	65	46
7	44	48	91	e160	400	e180	332	193	e260	122	57	44
8	e40	55	96	e140	422	1,480	310	e270	e240	111	64	49
9	e45	64	251	e130	378	740	e1,100	e330	236	101	149	49
10	e50	68	1,860	e110	310	515	e1,100	e330	221	91	127	49
11	e45	57	1,720	e100	251	378	e590	e290	207	79	106	57
12	e45	48	e1,300	e90	290	310	e380	e250	193	68	72	72
13	e90	40	e870	e85	468	332	e490	e230	179	77	64	53
14	e70	40	445	e95	445	332	1,480	207	203	81	59	53
15	e45	400	378	e120	515	259	740	186	515	91	68	53
16	e40	850	259	e310	615	251	515	186	243	81	59	48
17	e40	515	236	e130	640	214	378	165	251	108	51	49
18	e45	445	214	e130	690	172	310	e150	228	122	55	46
19	e45	e200	193	e120	690	186	332	e150	210	106	64	84
20	e40	77	218	e120	690	176	332	e140	218	96	e55	64
21	e35	68	1,860	e120	640	186	740	e130	203	89	e55	42
22	e35	66	3,230	e120	795	176	2,350	e120	207	81	e40	48
23	40	89	960	e130	3,750	186	1,120	e110	193	72	e50	46
24	48	64	2,830	e150	1,360	165	e690	e100	176	70	e50	46
25	51	68	3,230	e180	e1,100	149	e510	e130	172	77	e45	44
26	44	e490	4,470	e210	e810	130	e330	e140	159	68	e55	46
27	36	355	e1,300	251	540	e130	e310	e120	143	79	e70	42
28	e35	270	e1,500	310	355	127	e290	176	152	93	e50	46
29	e40	152	e1,700	378	-------	e130	e290	159	133	91	e40	49
30	e45	89	e1,000	400	-------	e130	e270	e1,500	122	79	e50	48
31	e50	-------	445	565	-------	e130	-------	e1,300	-------	68	e70	-------

Month	Maximum	Minimum	Mean	Per square mile	Run off in inches
October	90	35	46.7	0.324	0.37
November	850	40	164	1.14	1.27
December	4,470	68	1,000	6.94	8.00
January	565	85	207	1.44	1.66
February	3,750	251	678	4.71	4.90
March	1,480	127	281	1.95	2.25
April	2,350	270	570	3.96	4.42
May	1,500	100	281	1.95	2.25
June	690	122	276	1.92	2.14
July	133	68	93.9	.652	.75
August	149	40	67.5	.469	.54
September	84	42	50.5	.351	.39
The year	4,470	35	307	2.13	28.94

e Gage height record not reliable; discharge estimated.

WATAUGA RIVER AT BUTLER, TENN.

LOCATION.—Staff gage at highway bridge at Butler, Johnson County, just below Roane Creek. Prior to August 13, 1927, chain gage at same site was used. Zero of both gages is 1,812.10 feet above mean sea level.

DRAINAGE AREA.—427 square miles.

RECORDS AVAILABLE.—August, 1900, to December, 1901, and November, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,300 second-feet February 23 (gage height, 7.6 feet); minimum, 150 second-feet September 30 (gage height, 1.24 feet).

1900–1901, 1920–1927: Maximum discharge not determined; maximum gage height, 16.27 feet, old gage datum, May 21, 1901; minimum discharge, 85 second-feet September 7, 1925.

REMARKS.—Records below 3,500 second-feet, good; others, fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	236	285	615	1,140	1,480	1,080	780	875	1,800	405	695	309
2	339	268	518	925	1,140	1,080	828	695	1,300	470	470	246
3	333	246	505	828	975	975	738	655	2,220	578	399	236
4	241	230	470	780	1,080	780	695	695	1,670	470	505	236
5	268	230	438	780	1,030	828	655	655	1,300	399	405	225
6	333	225	438	695	1,140	925	780	578	1,030	393	375	333
7	252	220	405	615	2,700	1,080	695	578	1,030	393	351	252
8	215	220	405	540	1,940	1,940	655	615	828	615	327	258
9	185	252	615	540	1,360	2,220	738	780	738	438	505	381
10	185	505	2,540	540	1,190	2,220	2,220	655	695	405	540	399
11	241	339	1,420	438	975	1,670	1,800	615	695	438	438	405
12	263	285	1,030	438	828	1,420	1,300	578	695	375	405	375
13	393	285	1,300	470	1,360	1,250	975	540	655	540	333	285
14	438	268	1,420	695	2,220	1,420	925	540	1,420	405	285	241
15	333	309	1,250	578	1,610	1,480	828	540	1,360	381	285	230
16	280	6,300	1,140	405	1,250	1,140	780	505	1,360	470	285	220
17	327	1,800	828	540	1,300	1,030	738	505	1,030	438	263	210
18	309	1,140	780	578	975	975	655	470	1,190	1,670	925	215
19	268	1,030	655	540	1,140	875	875	438	1,250	738	655	220
20	246	925	615	578	3,940	828	1,080	438	1,030	505	470	241
21	230	695	695	578	2,220	828	1,800	438	875	438	393	215
22	230	655	1,800	578	2,380	1,030	5,900	405	828	578	339	200
23	230	505	1,030	540	7,900	875	2,860	399	780	1,670	351	190
24	246	505	925	615	3,560	780	1,940	405	738	828	333	180
25	387	505	1,670	615	2,540	780	1,480	470	655	615	297	170
26	351	615	3,030	615	1,940	738	1,190	470	578	505	285	170
27	297	1,250	1,800	615	1,480	655	1,030	438	540	470	291	170
28	268	925	2,220	578	1,190	615	975	828	505	405	375	170
29	263	780	3,030	828	-------	615	828	1,080	505	369	297	160
30	263	738	1,940	1,080	-------	615	780	5,100	470	381	280	150
31	285	-------	1,300	2,540	-------	615	-------	3,560	-------	738	274	-------

Month	Maximum	Minimum	Mean	Per square mile	Inches
October	438	185	282	0.660	0.76
November	6,300	220	751	1.76	1.96
December	3,030	405	1,190	2.79	3.22
January	2,540	405	704	1.65	1.90
February	7,900	828	1,890	4.43	4.61
March	2,220	615	1,080	2.53	2.92
April	5,900	655	1,250	2.93	3.27
May	5,100	399	824	1.93	2.22
June	2,220	470	992	2.32	2.59
July	1,670	369	565	1.32	1.52
August	925	263	401	.939	1.08
September	405	150	243	.569	.63
The year	7,900	150	839	1.96	26.68

WATAUGA RIVER AT ELIZABETHTON, TENN.

LOCATION.—Water-stage recorder at Virginia & Southwestern Railway bridge at Elizabethton, Carter County, half a mile below Doe River. Prior to October 4, 1926, staff at same site was used. Zero of both gages, 1,486.03 feet above mean sea level.

DRAINAGE AREA.—703 square miles.

RECORDS AVAILABLE.—February, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 13,400 second-feet February 23 (gage height, 11.1 feet); minimum, 105 second-feet September 30 (gage height, 1.75 feet).

1926–27: Maximum discharge, that of February 23, 1927; minimum, 95 second-feet July 25, 1926 (gage height, 1.7 feet).

Maximum stage known, 22.0 feet February 27 or 28, 1902.

REMARKS.—Records good below 4,500 second-feet and fair above. Discharge based on staff-gage readings October 1–3, April 13–22, and August 22–28. Considerable diurnal fluctuation caused by operation of Watauga Power Co.'s plant 7 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	195	465	1,090	2,160	2,930	1,920	1,280	1,540	4,420	628	1,040	477
2	350	500	975	1,670	2,100	1,860	1,540	1,280	2,920	840	826	472
3	328	420	919	1,520	1,770	1,590	1,330	1,150	5,090	968	648	433
4	415	415	821	1,380	1,980	1,480	1,200	1,150	4,100	791	714	380
5	415	395	735	1,300	1,930	1,480	1,170	1,100	2,860	756	648	360
6	506	485	814	1,130	2,100	1,540	1,480	944	2,160	622	546	433
7	420	289	709	1,050	5,100	1,760	1,330	952	2,040	596	411	444
8	382	372	696	975	3,720	3,490	1,240	1,010	1,700	784	642	428
9	364	475	1,340	891	2,600	4,420	1,270	1,330	1,480	721	856	558
10	269	761	4,760	975	2,040	4,100	3,560	1,140	1,380	583	888	694
11	395	610	2,790	870	1,820	3,130	3,640	1,110	1,330	763	904	499
12	425	517	1,930	709	1,520	2,530	2,530	1,040	1,240	596	742	700
13	670	485	2,280	735	2,340	2,220	3,340	936	1,330	707	648	444
14	898	386	2,660	975	4,030	2,340	1,700	904	2,340	583	477	411
15	683	646	2,460	1,170	2,930	2,280	1,480	856	2,600	596	510	411
16	574	6,920	2,040	814	2,280	2,040	1,380	960	2,660	609	477	350
17	415	3,350	1,620	1,010	1,980	1,860	1,280	833	1,980	558	805	360
18	562	2,040	1,430	1,050	1,720	1,700	1,280	833	1,920	1,920	1,590	314
19	455	1,880	1,210	975	2,160	1,590	1,380	770	2,160	1,240	1,050	455
20	562	1,380	1,170	975	5,630	1,430	1,920	784	1,810	826	784	400
21	359	1,130	1,210	940	3,800	1,430	2,660	880	1,540	728	714	390
22	350	1,110	2,930	933	2,790	1,810	8,700	596	1,380	872	700	360
23	440	891	2,530	905	7,680	1,540	4,920	777	1,480	2,400	482	332
24	364	835	1,930	1,010	8,500	1,430	3,270	714	1,240	1,280	570	314
25	592	780	2,860	1,050	4,920	1,430	2,530	805	1,070	896	482	285
26	670	1,050	5,270	1,050	3,490	1,280	2,160	936	952	812	482	350
27	544	1,980	3,650	1,050	2,720	1,210	1,860	742	936	680	540	265
28	485	1,720	3,500	1,010	2,220	1,200	1,700	1,130	819	596	534	332
29	485	1,380	5,630	1,250	------	984	1,480	2,160	763	576	558	341
30	550	1,250	3,800	1,930	------	1,040	1,380	8,900	770	661	522	254
31	354	------	2,720	4,930	------	1,050	------	6,160	------	735	488	------

Month	Maximum	Minimum	Mean	Per square mile	Inches
October	898	195	467	0.664	0.77
November	6,920	289	1,160	1.65	1.84
December	5,630	696	2,210	3.14	3.62
January	4,930	709	1,240	1.76	2.03
February	8,500	1,520	3,170	4.51	4.70
March	4,420	984	1,910	2.72	3.14
April	8,700	1,170	2,200	3.13	3.49
May	8,900	596	1,430	2.03	2.34
June	5,090	763	1,950	2.77	3.09
July	2,400	558	836	1.19	1.37
August	1,590	411	686	.976	1.13
September	700	254	408	.580	.65
The year	8,900	195	1,460	2.08	28.17

DOE RIVER AT VALLEY FORGE, TENN.

LOCATION.—Chain gage on highway bridge 50 feet downstream from Eastern Tennessee & Western North Carolina Railroad bridge and a quarter of a mile north of Valley Forge, Carter County.

DRAINAGE AREA.—132 square miles.

RECORDS AVAILABLE.—December, 1911, to October, 1916, and November, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,680 second-feet May 30 (gage height, 6.4 feet); minimum, 45 second-feet September 26.

1911–1916, 1920–1927: Maximum discharge determined by slope-area method, 5,040 second-feet June 13, 1924 (gage height, 6.7 feet, from high-water mark); minimum, 17 second-feet August 31 and September 7, 1925 (gage height, 0.60 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	103	243	395	495	372	265	285	900	153	320	97
2	135	94	204	350	420	350	258	265	585	299	240	92
3	78	80	188	285	372	328	246	243	1,780	278	133	104
4	71	78	181	285	372	328	228	250	1,110	186	130	90
5	71	74	172	243	372	305	235	228	645	158	128	83
6	98	71	159	221	372	328	328	218	442	141	112	79
7	67	69	141	201	1,260	372	285	208	415	141	104	81
8	55	74	153	194	720	840	265	197	365	156	107	83
9	57	132	372	184	495	840	285	194	320	141	233	130
10	58	147	690	181	420	720	1,040	201	299	130	233	112
11	103	108	470	162	372	578	720	201	278	125	186	133
12	96	84	395	150	328	522	522	191	240	117	150	128
13	132	82	470	172	660	445	420	178	278	120	117	94
14	121	91	495	265	660	578	350	181	390	117	112	66
15	91	124	445	221	495	522	285	172	738	114	117	72
16	78	1,340	350	191	328	420	285	172	645	128	112	83
17	76	495	328	218	328	372	265	172	442	122	100	79
18	72	420	328	221	305	328	250	156	498	150	259	72
19	74	305	250	201	395	328	285	156	442	156	259	77
20	71	250	218	201	780	285	285	172	365	128	189	79
21	76	228	265	204	578	305	395	162	299	128	144	66
22	69	181	395	197	470	372	1,260	168	299	259	112	72
23	89	159	372	184	2,190	350	720	150	278	320	112	64
24	80	165	350	221	1,260	328	495	150	240	219	100	56
25	135	175	522	214	780	305	420	225	226	141	104	52
26	127	235	780	221	605	258	372	201	205	128	100	47
27	96	445	578	208	470	261	305	188	186	114	112	54
28	87	350	840	197	395	246	285	350	179	110	107	54
29	82	261	905	305	-------	235	285	495	170	100	100	62
30	78	265	605	495	-------	235	285	3,720	161	97	104	52
31	98	-------	470	780	-------	250	-------	1,180	-------	150	139	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	135	55	86.5	0.655	0.76
November	1,340	69	223	1.69	1.89
December	905	141	398	3.02	3.48
January	780	150	251	1.90	2.19
February	2,190	305	596	4.52	4.71
March	840	235	397	3.01	3.47
April	1,260	228	397	3.01	3.36
May	3,720	150	356	2.70	3.11
June	1,780	161	447	3.39	3.78
July	320	97	156	1.18	1.36
August	320	100	148	1.12	1.29
September	133	47	80.4	.609	.68
The year	3,720	47	292	2.21	30.08

NORTH FORK OF HOLSTON RIVER NEAR SALTVILLE, VA.

LOCATION.—Chain gage on Cedar Branch Bridge 1½ miles northeast of Saltville, Smyth County, and 3 miles upstream from Sturgeon Creek.

DRAINAGE AREA.—228 square miles.

RECORDS AVAILABLE.—November, 1920, to September, 1927. June, 1907, to November, 1908, 1½ miles downstream.

EXTREMES.—Maximum discharge during year, 5,210 second-feet December 22 (gage height, 10.0 feet); minimum, 28 second-feet September 29 (gage height, 1.40 feet).

1907–8, 1920–1927: Maximum discharge, 8,220 second-feet February 3, 1923 (gage height, 13.97 feet); minimum, 21 second-feet September 13, 1925 (gage height, 1.24 feet).

REMARKS.—Records good. Discharge estimated December 18 because stage-discharge relation was affected by ice. Possibly some regulation from mills above station during extremely low water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	114	243	787	738	502	605	428	1,420	94	88	44
2	52	115	205	605	563	483	945	410	692	86	94	45
3	51	110	182	522	502	410	605	344	1,610	99	88	48
4	40	100	171	502	464	376	502	270	1,750	107	94	58
5	32	103	171	428	502	376	360	648	1,120	105	97	60
6	39	95	160	299	428	410	344	522	692	86	76	55
7	58	81	150	299	522	692	314	464	832	91	53	51
8	47	74	171	314	522	1,420	299	522	891	103	54	58
9	33	68	150	376	464	1,420	838	738	563	108	71	53
10	33	99	2,240	314	464	891	1,540	605	422	91	82	49
11	39	92	1,120	270	428	692	1,000	464	314	103	97	67
12	47	83	605	230	393	502	648	376	255	107	91	79
13	314	69	787	230	522	464	692	329	256	85	85	63
14	410	83	692	376	1,000	428	2,320	299	344	67	71	49
15	205	68	563	284	738	464	1,240	344	410	61	63	43
16	182	1,960	428	256	738	446	738	344	314	71	65	40
17	112	891	256	344	1,240	393	522	299	299	71	62	36
18	81	648	250	329	1,120	376	464	284	243	95	122	36
19	74	344	299	314	1,120	344	692	284	218	150	230	38
20	92	218	360	284	2,560	329	838	270	194	140	230	39
21	329	194	2,960	284	1,420	329	648	299	169	94	171	58
22	182	160	4,670	284	1,060	314	3,120	256	171	75	122	49
23	140	150	2,030	314	2,960	284	1,820	218	182	75	218	43
24	160	131	1,420	344	2,560	270	787	230	171	65	131	36
25	360	131	3,600	376	1,360	284	605	243	160	58	81	32
26	360	140	3,950	360	1,000	256	522	243	131	53	69	31
27	243	483	1,960	314	692	243	428	205	122	55	64	33
28	194	483	1,610	299	605	230	344	218	119	55	56	31
29	182	329	2,640	464	-------	218	256	243	112	51	50	29
30	131	299	1,480	692	-------	218	329	1,820	102	55	55	30
31	112	-------	1,000	1,000	-------	205	-------	2,100	-------	68	50	-------

Month	Maximum	Minimum	Mean	Per square miles	Run-off in inches
October	410	32	141	0.618	0.71
November	1,960	68	264	1.16	1.29
December	4,670	150	1,180	5.18	5.97
January	1,000	230	390	1.71	1.97
February	2,960	393	953	4.18	4.35
March	1,420	205	460	2.02	2.33
April	3,120	256	812	3.56	3.97
May	2,100	205	462	2.03	2.34
June	1,750	102	476	2.09	2.33
July	150	51	84.6	.371	.43
August	230	50	96.1	.421	.49
September	79	29	46.1	.202	.23
The year	4,670	29	443	1.94	26.41

NORTH FORK OF HOLSTON RIVER AT MENDOTA, VA.

LOCATION.—Chain gage on highway bridge one-fourth mile east of Mendota, Washington County.

DRAINAGE AREA.—500 square miles.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 17,800 second-feet December 22 (gage height, 13.58 feet); minimum, 51 second-feet September 25 and 30 (gage height, 1.73 feet).

1920–1927: Maximum discharge, 19,600 second-feet February 3, 1923 (gage height, 14.4 feet); minimum, 39 second-feet September 10, 1925 (gage height, 1.47 feet).

REMARKS.—Records good. Discharge estimated November 9–11, when gage heights were missing, and January 12–18, when affected by ice. Several small mills are situated above station, but their effect on flow is negligible.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	313	796	1,660	1,750	1,000	1,080	1,240	2,340	200	138	115
2	107	292	570	1,240	1,320	1,000	2,140	1,000	1,400	231	166	115
3	82	270	336	1,000	1,000	826	1,320	894	3,020	335	152	99
4	110	245	313	894	1,320	728	1,000	1,080	3,640	247	170	132
5	121	210	406	793	1,080	696	793	1,480	2,240	207	160	112
6	110	206	512	665	929	728	929	1,320	1,570	192	132	90
7	121	191	432	604	1,000	860	826	793	2,560	185	112	115
8	124	170	432	383	1,000	2,780	728	1,160	2,040	185	118	115
9	84	170	1,040	434	1,000	2,670	1,000	2,450	1,400	177	135	115
10	84	250	6,030	545	860	1,480	3,140	1,660	1,160	163	177	116
11	82	250	3,790	461	793	1,480	2,340	1,320	929	170	227	117
12	90	250	1,600		696	1,160	1,570	1,000	1,000	185	181	118
13	432	221	1,960		793	1,000	1,160	826	793	160	156	160
14	1,040	229	2,050		2,040	1,080	4,860	696	793	156	138	125
15	512	199	1,600	500	1,660	1,080	2,900	665	1,080	149	146	105
16	382	3,670	1,200		1,320	929	1,840	604	929	135	112	102
17	336	2,240	900		1,480	860	1,400	545	696	135	118	93
18	292	1,200	762		2,240	760	1,160	359	604	132	317	83
19	177	830	632	545	2,040	665	2,340	330	574	188	434	65
20	177	570	541	574	7,340	604	2,040	516	488	219	322	77
21	457	512	3,430	604	3,640	604	1,660	574	434	170	299	77
22	484	406	17,600	604	1,840	604	3,900	545	434	142	219	65
23	313	358	6,030	604	8,220	545	4,160	488	408	138	156	71
24	358	313	2,900	665	8,220	516	2,140	488	359	135	251	65
25	457	292	9,740	793	3,510	488	1,480	434	330	128	166	54
26	900	762	11,900	793	2,240	434	1,160	488	299	105	138	56
27	601	1,600	5,000	665	1,660	408	929	434	268	99	132	56
28	432	1,520	4,580	604	1,320	383	826	760	256	109	118	59
29	336	970	6,670	894	-------	359	728	1,000	227	102	112	65
20	270	796	3,510	1,320	-------	335	826	4,160	215	112	96	59
31	292	-------	2,140	2,140	-------	335	-------	5,140	-------	112	112	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,040	82	305	0.610	0.70
November	3,670	170	650	1.30	1.45
December	17,600	313	3,210	6.42	7.40
January	2,140	383	741	1.48	1.71
February	8,220	696	2,230	4.46	4.64
March	2,780	335	884	1.77	2.04
April	4,860	728	1,750	3.50	3.90
May	5,140	330	1,110	2.22	2.56
June	3,640	215	1,080	2.16	2.41
July	335	99	165	.330	.38
August	434	96	175	.350	.40
September	160	54	93.2	.186	.21
The year	17,600	54	1,020	2.04	27.80

LITTLE RIVER AT WALLAND, TENN.

LOCATION.—Staff gage half a mile above Walland, Blount County, and three-fourths mile above dam of England, Walton & Co.'s tannery. Zero of gage is 912.00 feet above mean sea level.

DRAINAGE AREA.—235 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,640 second-feet February 23 (gage height, 7.6 feet); minimum, 60 second-feet September 20 (gage height, 0.96 foot).

1925–1927: Maximum discharge, that of February 23, 1927; minimum, 15 second-feet August 31, 1925 (gage height, 0.55 foot).

REMARKS.—Records good below 1,500 second-feet and fair above that stage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	134	188	267	890	1,730	890	360	770	960	235	315	211
2	103	167	231	680	890	1,030	405	710	680	211	267	195
3	84	134	167	600	770	770	338	600	500	275	195	164
4	97	103	112	500	575	650	259	475	405	243	295	160
5	121	81	81	450	382	650	338	405	338	203	243	188
6	153	81	112	405	500	770	360	338	405	199	203	243
7	134	92	188	360	450	4,400	382	315	500	255	167	227
8	97	89	338	360	500	3,880	450	338	428	231	215	188
9	81	103	890	382	625	1,940	500	315	360	360	227	174
10	84	178	1,440	360	600	1,030	450	275	360	500	211	160
11	86	428	600	315	500	680	428	243	405	475	382	140
12	92	360	550	247	550	500	360	203	960	405	650	140
13	121	255	1,730	203	1,730	405	338	255	890	360	525	167
14	188	203	1,260	315	1,530	500	315	251	680	295	428	195
15	144	338	960	338	890	650	338	235	1,100	243	382	195
16	115	1,030	960	405	600	625	360	207	770	235	315	188
17	115	890	830	450	625	600	428	167	625	338	360	174
18	97	890	740	405	550	890	360	188	960	267	315	157
19	94	710	650	360	625	740	275	203	770	295	275	121
20	100	550	500	315	710	625	338	203	600	275	243	92
21	86	450	405	315	600	550	830	167	550	267	267	134
22	81	382	405	382	1,180	450	890	164	710	.263	243	130
23	103	338	770	475	4,960	550	550	153	550	267	195	103
24	134	275	575	405	2,860	500	428	203	450	259	167	86
25	178	428	1,730	360	2,050	405	360	360	405	251	164	81
26	167	1,630	4,140	382	1,530	315	360	315	360	207	203	92
27	121	1,030	3,880	450	1,180	360	428	243	315	178	181	103
28	92	405	4,400	550	830	315	625	428	315	153	203	86
29	103	405	2,860	770	-------	219	1,030	600	275	144	235	75
30	127	338	1,630	1,350	-------	167	890	770	275	134	199	63
31	195	-------	1,100	2,050	-------	275	-------	960	-------	203	167	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	195	81	117	0.498	0.57
November	1,630	81	418	1.78	1.99
December	4,400	81	1,110	4.72	5.44
January	2,050	203	511	2.17	2.50
February	4,960	382	1,090	4.64	4.83
March	4,400	167	849	3.61	4.16
April	1,030	259	459	1.95	2.18
May	960	153	357	1.52	1.75
June	1,100	275	563	2.40	2.68
July	500	134	265	1.13	1.30
August	650	164	272	1.16	1.34
September	243	63	148	.630	.70
The year	4,960	63	510	2.17	29.44

LITTLE TENNESSEE RIVER AT ETNA, N. C.

LOCATION.—Staff gage at county footbridge at Etna, Macon County, just downstream from mouth of Lakey Creek, 3¾ miles downstream from mouth of Cowee Creek, and 7½ miles northwest of Franklin.

DRAINAGE AREA.—378 square miles.

RECORDS AVAILABLE.—January, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,380 second-feet December 28 (gage height, 7.30 feet); minimum, 228 second-feet October 23, 24, 29, and 30 (gage height, 1.16 feet).

1926–1927: Maximum discharge, that of December 28, 1926; minimum 210 second-feet September 29 and 30, 1926 (gage height, 1.08 feet).

REMARKS.—Records only fair owing to shifting control. Considerable diurnal fluctuation caused by operation of Franklin hydroplant.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	354	354	573	1,650	650	955	825	765	705	413	524	478
2	286	256	478	1,560	678	955	765	678	705	354	478	373
3	302	271	455	1,320	678	765	705	598	573	478	455	373
4	271	271	434	1,160	573	825	765	624	548	393	500	434
5	271	271	455	1,160	500	890	705	624	478	478	573	413
6	256	271	434	1,020	624	890	765	650	500	434	524	413
7	271	242	413	955	650	1,100	735	650	500	336	373	413
8	242	271	434	955	598	2,220	650	573	548	373	336	373
9	242	1,020	455	1,020	598	3,100	955	573	455	434	354	336
10	256	765	455	825	650	2,660	890	548	524	825	373	393
11	242	455	500	765	624	2,020	765	524	500	735	1,020	393
12	242	354	413	765	650	1,480	678	548	598	650	1,240	319
13	271	354	1,240	735	955	1,400	678	524	573	548	573	319
14	286	354	1,650	955	1,840	1,650	650	548	735	500	434	286
15	286	455	890	890	1,160	1,480	393	500	1,020	624	500	286
16	256	2,860	1,020	573	955	1,240	548	524	1,100	573	434	256
17	271	1,160	825	890	825	1,160	624	524	678	624	393	271
18	302	1,320	765	598	825	1,100	678	393	955	598	354	256
19	242	1,160	598	500	825	1,020	705	500	955	955	354	271
20	271	735	705	650	825	955	573	478	765	500	354	302
21	271	735	573	735	890	955	624	548	573	705	286	302
22	242	624	1,020	624	765	1,100	1,100	478	678	1,020	373	256
23	242	548	735	524	1,400	890	825	500	705	890	319	271
24	242	478	705	500	1,930	890	765	548	548	573	319	271
25	336	548	2,880	825	1,400	890	765	500	573	500	302	286
26	319	524	5,400	573	1,160	890	678	500	455	500	393	271
27	271	1,100	3,460	1,020	1,020	765	705	500	500	548	393	256
28	242	705	4,600	765	890	765	650	478	478	413	393	256
29	256	500	4,990	548	-------	765	650	624	393	354	413	271
30	256	573	2,880	825	-------	765	705	890	373	413	319	319
31	271	-------	2,770	890	-------	765	-------	765	-------	524	765	-------

Month	Maximum	Minimum	Mean	Month	Maximum	Minimum	Mean
October	354	242	270	May	890	393	570
November	2,860	242	651	June	1,100	373	623
December	5,400	413	1,400	July	1,020	336	557
January	1,650	500	864	August	1,240	286	465
February	1,930	500	898	September	478	256	324
March	3,100	765	1,200				
April	1,100	393	717	The year	5,400	242	713

LITTLE TENNESSEE RIVER AT JUDSON, N. C.

LOCATION.—Staff gage one-fourth mile downstream from highway bridge at railroad station at Judson, Swain County, and half a mile downstream from mouth of Yalaka Creek.

DRAINAGE AREA.—668 square miles.

RECORDS AVAILABLE.—April, 1912, to September, 1927. June, 1896, to September, 1913, at site 1 mile downstream.

EXTREMES.—Maximum discharge during year, 11,000 second-feet December 28 (gage height, 24.1 feet); minimum, 374 second-feet October 23 (gage height, 17.06 feet).

1896–1927: Maximum discharge, 40,800 second-feet February 28, 1902 (gage height, 16.19 feet, on former gage); minimum, 165 second-feet October 10, 1925 (gage height, 16.70 feet).

REMARKS.—Records good. Slight diurnal fluctuation during low water due to operation of municipal plants at Franklin and Bryson.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	600	565	1,180	3,480	1,430	2,200	2,320	1,530	1,860	890	1,330	1,100
2	600	600	1,140	3,210	1,530	2,320	1,860	1,330	1,530	815	1,010	852
3	635	498	1,140	2,950	1,430	2,080	1,750	1,180	1,330	970	890	890
4	530	530	970	2,690	1,430	1,860	1,750	1,230	1,180	930	1,140	930
5	635	465	970	2,320	1,140	2,080	1,860	1,230	1,050	930	1,140	852
6	600	498	890	2,080	1,330	2,200	1,970	1,330	1,050	930	1,050	890
7	530	465	890	1,970	1,640	2,950	1,750	1,230	1,050	815	852	1,100
8	465	465	1,010	1,860	1,530	6,930	1,530	1,230	1,100	815	740	890
9	413	890	1,140	1,640	1,430	6,360	1,750	1,140	1,050	1,010	970	890
10	465	1,530	1,230	1,640	1,530	5,630	2,080	1,100	890	1,640	815	852
11	498	1,010	1,010	1,640	1,430	4,040	1,860	1,050	1,050	1,750	2,200	890
12	452	705	1,050	1,430	1,530	3,480	1,640	1,010	1,050	1,230	2,440	740
13	600	565	3,620	1,430	2,820	3,210	1,530	1,010	1,100	1,050	1,530	705
14	1,140	705	3,620	1,860	3,620	3,620	1,640	1,100	1,180	1,100	1,230	705
15	432	1,140	2,690	1,750	2,820	3,340	1,230	970	2,080	1,010	1,430	705
16	530	4,350	2,080	1,430	2,320	3,080	1,230	970	2,320	1,050	1,180	600
17	530	1,750	1,640	1,330	2,080	2,690	1,430	970	1,970	1,050	1,140	600
18	530	2,200	1,860	1,530	1,970	2,560	1,430	970	1,970	1,140	970	565
19	498	2,080	1,430	1,230	1,860	2,320	1,430	970	2,320	1,860	890	635
20	465	1,640	1,430	1,430	2,080	2,200	1,430	1,050	1,860	970	970	740
21	465	1,230	1,530	1,430	1,860	2,320	2,440	970	1,530	1,140	815	705
22	465	1,230	2,560	1,230	1,640	2,560	1,860	890	1,530	1,330	890	600
23	420	1,140	2,200	1,140	4,410	2,200	1,750	890	1,530	1,750	778	530
24	452	930	2,560	1,230	4,800	2,080	1,640	970	1,230	1,100	740	565
25	1,010	1,100	5,990	1,140	3,080	1,970	1,530	1,230	1,230	1,010	740	600
26	600	1,750	9,620	1,230	2,820	2,080	1,530	890	1,140	930	970	530
27	530	2,200	5,810	1,860	2,560	1,860	1,430	970	1,100	970	1,140	530
28	465	1,530	7,880	1,330	2,320	1,860	1,430	970	1,050	852	970	530
29	465	1,230	8,740	1,750	------	1,750	1,330	1,330	930	778	890	565
30	530	1,330	5,290	1,530	------	1,860	1,430	1,970	890	778	815	740
31	530	------	4,190	1,860	------	2,080	------	1,640	------	1,430	815	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,140	413	551	0.825	0.95
November	4,350	465	1,210	1.81	2.02
December	9,620	890	2,820	4.22	4.86
January	3,480	1,140	1,760	2.64	3.04
February	4,800	1,140	2,160	3.23	3.36
March	6,930	1,750	2,830	4.24	4.89
April	2,440	1,230	1,660	2.49	2.78
May	1,970	890	1,140	1.70	1.96
June	2,320	890	1,370	2.05	2.29
July	1,860	815	1,100	1.65	1.90
August	2,440	740	1,080	1.62	1.87
September	1,100	530	734	1.10	1.23
The year	9,620	413	1,530	2.29	31.15

LITTLE TENNESSEE RIVER AT CALDERWOOD, TENN.

LOCATION.—Water-stage recorder at pump house of Knoxville Power Co. at Calderwood, Blount County. Zero of gage is 861.78 feet above mean sea level.

DRAINAGE AREA.—1,870 square miles.

RECORDS AVAILABLE.—January, 1912, to December, 1918, and January, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 34,000 second-feet December 26 (gage height, 746.3 feet); minimum, 868 second-feet October 17 (gage height, 739.51 feet).

1912–1918, 1921–1927: Maximum mean daily discharge, 70,000 second-feet March 4, 1917; minimum discharge, 360 second-feet October 2, 1925 (regulated flow).

REMARKS.—Records good. Discharge interpolated on November 9; discharge determined from two daily staff-gage readings January 8–12. Considerable regulation caused by operation of power house and dam 10 miles upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,500	1,740	4,040	9,940	5,550	6,690	5,920	4,510	7,300	3,680	3,590	2,830
2	1,550	1,650	3,590	8,350	5,370	6,690	5,740	4,510	5,370	3,880	3,180	2,430
3	1,420	1,670	3,530	7,500	5,370	6,110	5,020	3,820	4,840	4,510	3,010	2,700
4	1,500	1,590	3,530	6,690	5,190	5,740	5,190	3,740	4,190	3,200	3,120	3,280
5	1,610	1,520	3,280	6,110	5,190	5,920	5,370	3,590	4,040	3,120	3,370	2,700
6	1,670	1,440	3,560	5,550	5,020	6,500	5,550	3,790	4,040	3,120	3,260	2,600
7	1,550	1,160	3,150	5,190	5,190	7,300	5,370	3,530	3,880	3,120	2,910	2,780
8	1,500	1,420	3,370	4,840	5,190	20,700	5,190	3,370	3,760	3,120	2,960	2,810
9	1,320	2,360	4,680	5,020	4,510	18,900	5,190	3,710	3,710	3,180	3,280	2,600
10	1,160	3,310	4,840	5,020	5,020	16,500	5,190	3,650	3,760	3,200	3,070	2,460
11	1,440	2,830	4,680	5,190	5,190	12,200	5,370	3,650	3,760	4,510	4,680	2,480
12	1,420	2,480	4,350	5,020	4,680	10,200	5,190	3,230	3,530	3,790	7,500	2,290
13	1,460	2,360	10,900	4,350	5,740	9,470	5,190	2,630	4,350	3,340	5,110	2,200
14	1,760	1,990	11,100	4,040	11,400	10,900	5,190	2,530	4,190	3,590	4,040	2,200
15	2,110	2,810	8,140	4,680	8,570	9,940	5,190	2,360	6,110	3,280	5,550	2,200
16	1,820	11,100	7,300	4,190	7,090	8,570	4,840	2,960	7,500	3,310	3,740	2,200
17	1,610	6,690	5,920	4,510	6,300	7,920	3,370	2,880	5,740	4,040	3,680	2,200
18	1,380	5,550	5,190	4,510	6,110	7,500	4,190	2,940	7,300	3,560	3,340	2,110
19	1,360	6,300	5,020	4,510	5,920	6,890	4,350	3,230	8,350	4,040	3,200	2,340
20	1,320	5,190	5,190	4,350	5,920	6,690	4,350	3,180	6,500	3,450	2,910	2,270
21	1,220	4,190	5,190	4,350	5,740	6,500	4,350	3,120	5,370	3,070	2,630	2,200
22	1,220	3,880	10,200	3,880	5,550	6,690	5,370	2,530	5,370	3,510	2,660	2,180
23	1,300	3,760	8,140	3,150	14,300	6,300	5,370	2,760	5,370	4,040	2,760	2,180
24	1,240	2,910	8,790	4,190	15,400	5,920	5,190	3,510	4,680	3,260	2,760	2,150
25	1,670	2,600	20,100	4,040	10,600	5,920	5,190	3,880	4,350	3,010	2,430	2,020
26	1,710	3,530	27,900	4,040	9,240	5,550	4,680	4,040	4,040	2,960	2,360	2,020
27	1,860	4,840	16,500	3,880	7,710	5,370	4,190	3,710	3,790	2,940	2,340	2,020
28	1,670	5,020	20,100	4,350	6,890	5,550	4,040	3,310	3,710	2,940	2,760	1,990
29	1,520	3,880	23,900	5,190	-------	5,370	3,880	3,390	3,710	2,910	2,580	1,990
30	1,500	4,190	15,400	5,190	-------	5,190	4,040	5,740	3,710	2,910	2,430	2,020
31	1,400	-------	11,600	5,920	-------	5,190	-------	7,710	-------	3,040	2,600	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,110	1,160	1,510	0.807	0.93
November	11,100	1,160	3,470	1.86	2.08
December	27,900	3,150	8,810	4.71	5.43
January	9,940	3,150	5,090	2.72	3.04
February	15,400	4,510	6,930	3.71	3.86
March	20,700	5,190	8,220	4.40	5.07
April	5,920	3,370	4,910	2.63	2.93
May	7,710	2,360	3,600	1.93	2.22
June	8,350	3,530	4,880	2.61	2.91
July	4,510	2,910	3,410	1.82	2.10
August	7,500	2,340	3,350	1.79	2.06
September	3,280	1,990	2,350	1.26	1.41
The year	27,900	1,160	4,700	2.51	34.04

LITTLE TENNESSEE RIVER AT McGHEE, TENN.

LOCATION.—Staff gage at junction of Little Tennessee and Tellico Rivers 250 feet above Niles Ferry and half a mile south of McGhee, Monroe County. Zero of gage is 760.07 feet above mean sea level.

DRAINAGE AREA.—2,470 square miles, including Tellico River.

RECORDS AVAILABLE.—January, 1905, to December, 1913, and October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, about 59,000 second-feet December 26 (gage height, 20.9 feet); minimum, 1,120 second-feet October 21 (gage height, 3.21 feet).

1905–1913, 1918–1927: Maximum discharge, not determined; maximum gage height, 30.5 feet April 2, 1920; minimum discharge, 480 second-feet October 2, 1925.

United States Weather Bureau reports stage of 39.0 feet March, 1867.

REMARKS.—Records good except those for extremely high stages, which are fair. Large power development 30 miles upstream causes some diurnal fluctuation at gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,320	1,540	4,240	12,800	7,400	7,650	6,900	5,660	9,400	3,590	3,590	2,780
2	1,390	1,620	4,240	10,400	8,900	8,400	6,650	5,660	6,650	3,380	2,780	2,400
3	1,390	1,460	3,590	9,400	7,150	7,650	5,660	3,800	5,420	4,940	2,590	2,780
4	1,320	1,460	3,590	7,900	6,400	7,400	5,660	4,020	4,940	3,380	2,590	3,180
5	1,320	1,460	3,380	7,400	6,150	7,400	6,650	3,800	4,240	3,180	3,180	2,780
6	1,460	1,390	3,380	6,150	5,900	7,650	8,650	4,940	4,020	2,980	3,380	2,400
7	1,320	1,350	2,780	6,400	6,150	9,920	6,650	4,240	4,240	2,980	2,780	2,780
8	1,250	1,250	2,980	5,900	6,900	30,300	6,150	4,940	4,020	2,980	2,980	2,780
9	1,250	1,780	8,400	5,660	5,180	28,500	6,150	4,700	3,800	2,780	3,800	2,590
10	1,180	5,660	8,650	5,660	7,400	25,200	6,400	3,800	3,800	4,020	3,180	2,400
11	1,460	4,940	5,900	5,660	7,650	16,600	6,650	3,590	3,800	3,800	3,380	2,220
12	1,250	2,400	5,660	5,420	8,900	12,500	5,900	3,800	3,800	4,470	8,900	2,400
13	1,250	2,130	15,100	4,700	10,200	11,200	5,660	2,590	6,900	2,980	5,900	2,130
14	1,540	2,130	22,400	5,900	21,400	13,400	5,900	2,590	4,940	2,980	4,470	2,040
15	1,960	2,780	12,000	5,420	11,700	12,300	5,900	2,590	10,400	2,780	5,900	2,040
16	1,700	13,100	9,400	4,700	9,400	10,700	5,660	2,780	10,700	4,240	4,700	2,040
17	1,780	7,900	7,150	4,940	7,900	9,400	3,380	3,380	4,940	4,700	3,800	2,040
18	1,250	7,900	5,900	4,700	7,400	8,900	4,240	2,590	7,150	3,380	3,180	1,960
19	1,250	7,650	5,900	4,700	7,400	8,150	4,020	2,780	11,000	4,470	3,180	2,220
20	1,180	5,900	5,660	4,470	7,400	7,650	4,020	3,180	7,900	3,590	3,180	2,310
21	1,180	4,470	5,660	4,020	6,900	7,400	4,470	2,780	6,400	2,980	2,590	2,040
22	1,250	3,800	13,400	3,380	6,400	7,650	10,400	2,590	6,650	3,180	2,590	2,040
23	1,250	3,800	11,000	3,180	12,800	7,150	7,900	2,400	6,400	4,020	2,590	2,040
24	1,320	2,590	11,200	4,020	29,600	6,900	4,700	2,980	5,900	3,380	2,780	2,040
25	1,540	2,590	30,700	4,240	14,800	6,650	4,700	3,800	5,180	3,180	2,590	1,870
26	1,540	4,240	58,300	4,700	12,000	6,150	4,470	4,240	4,470	2,980	2,130	1,780
27	1,620	6,900	29,200	4,700	9,400	6,150	3,800	3,800	4,020	2,780	2,310	1,780
28	1,320	5,900	26,300	4,700	8,400	5,660	4,020	4,020	3,800	2,780	2,400	1,780
29	1,460	4,470	50,700	6,400	------	5,420	3,800	3,800	3,800	2,590	2,400	1,780
30	1,460	4,940	25,600	6,650	------	5,660	4,470	4,940	3,800	2,780	2,590	1,780
31	1,540	------	15,700	8,900	------	5,900	------	9,660	------	2,780	2,400	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,960	1,180	1,400	0.567	0.65
November	13,100	1,250	3,980	1.61	1.80
December	58,300	2,780	13,500	5.47	6.31
January	12,800	3,180	5,910	2.39	2.76
February	29,600	5,180	9,540	3.86	4.02
March	30,300	5,420	10,400	4.21	4.85
April	10,400	3,380	5,650	2.29	2.56
May	9,660	2,400	3,890	1.57	1.81
June	11,000	3,800	5,750	2.33	2.60
July	4,940	2,590	3,390	1.37	1.58
August	8,900	2,130	3,380	1.37	1.58
September	3,180	1,780	2,240	.907	1.01
The year	58,300	1,180	5,730	2.32	31.53

CULLASAJA CREEK AT CULLASAJA, N. C.

LOCATION.—Staff gage at Cullasaja, Macon County, 1 mile downstream from mouth of Ellijay Creek and 3½ miles upstream from mouth of creek.

DRAINAGE AREA.—87 square miles.

RECORDS AVAILABLE.—June, 1907, to December, 1909, and February, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,620 second-feet December 25 (gage height, 6.00 feet); minimum, 57 second-feet September 25–30 (gage height, 0.88 foot).

1907–1909, 1921–1927: Maximum discharge, 3,740 second-feet May 23, 1923 (gage height, 10.1 feet); minimum, 19 second-feet September 18–22, 1925 (gage height, 0.32 foot).

Maximum stage known, 17.2 feet July, 1916.

REMARKS.—Records good. Slight diurnal fluctuation, owing to operation of milldams.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	90	219	514	189	283	261	209	170	89	95	189
2	75	78	199	432	179	283	240	179	136	86	85	136
3	74	71	189	380	170	283	230	152	119	119	96	161
4	72	68	179	380	170	283	219	152	119	104	144	209
5	77	66	189	330	170	306	209	152	111	92	127	306
6	81	66	189	306	170	306	230	170	119	88	92	283
7	75	66	170	283	179	514	230	152	127	93	83	119
8	72	416	161	272	170	731	219	144	111	90	80	111
9	67	486	170	261	127	907	230	144	104	95	77	104
10	64	283	152	250	111	800	261	136	104	111	170	95
11	71	152	152	230	144	643	209	136	161	144	330	92
12	68	127	199	219	179	432	199	127	199	119	136	89
13	119	119	432	219	406	459	199	119	179	111	136	83
14	93	111	355	330	406	572	189	127	330	96	127	82
15	83	573	330	261	306	459	179	119	306	96	119	82
16	82	731	306	240	272	406	179	119	283	95	104	80
17	76	406	250	261	250	380	170	119	240	89	96	80
18	72	496	230	219	250	355	170	119	219	92	96	80
19	70	355	219	199	250	330	161	111	199	199	93	77
20	69	330	199	179	261	306	170	127	189	230	89	76
21	68	272	230	152	240	330	209	136	179	250	85	72
22	66	240	283	127	230	355	380	119	170	170	81	68
23	71	230	230	119	380	355	330	136	152	170	76	62
24	92	209	272	161	432	355	261	127	144	144	80	59
25	104	209	1,020	144	380	306	219	127	136	136	77	58
26	83	486	1,100	179	330	283	189	127	127	127	283	57
27	75	306	602	209	306	261	179	111	119	111	209	61
28	72	272	1,440	199	272	250	170	111	111	104	119	59
29	72	230	1,100	219	------	250	161	230	96	104	104	57
30	70	230	731	209	------	250	199	144	92	96	88	57
31	111	------	572	199	------	283	------	170	------	96	250	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	119	64	78	0.897	1.03
November	731	66	259	2.98	3.32
December	1,440	152	389	4.47	5.15
January	514	119	248	2.85	3.29
February	432	111	247	2.84	2.96
March	907	250	394	4.53	5.22
April	380	161	215	2.47	2.76
May	230	111	140	1.61	1.86
June	330	92	162	1.86	2.07
July	250	86	121	1.39	1.60
August	330	76	123	1.41	1.63
September	306	57	105	1.21	1.35
The year	1,440	57	207	2.38	32.24

NANTAHALA RIVER AT ALMOND, N. C.

LOCATION.—Staff gage 500 feet downstream from railroad station and highway bridge at Almond, Swain County, and one-fourth mile upstream from confluence with Little Tennessee River.

DRAINAGE AREA.—177 square miles.

RECORDS AVAILABLE.—April, 1912, to November, 1917, and January, 1921, to September, 1927.

EXTREMES.—Maximum discharge, during year, 6,600 second-feet December 28 (gage height, 4.85 feet); minimum, 161 second-feet October 22 and 23 (gage height, 0.84 foot).

1912–1917, 1921–1927: Maximum discharge, 15,400 second-feet January 21, 1922 (gage height, 7.75 feet); minimum, 79 second-feet September 20–22 1925 (gage height, 0.54 foot).

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	273	235	438	1,530	670	880	795	495	795	375	530	320
2	201	194	404	1,280	670	880	715	462	565	364	364	300
3	194	187	386	1,120	630	790	678	430	530	370	336	353
4	184	180	374	1,070	590	750	640	462	462	353	403	331
5	247	174	356	925	550	750	715	430	430	364	430	300
6	268	174	350	880	550	880	715	495	403	331	348	295
7	187	174	330	790	670	1,070	640	430	430	315	320	430
8	180	174	362	750	630	3,920	640	430	403	331	310	326
9	170	835	550	710	630	2,620	715	403	375	462	403	336
10	174	459	590	710	670	1,960	678	403	375	495	315	310
11	180	330	480	630	630	1,530	678	403	375	678	715	320
12	198	282	515	630	630	1,340	640	375	530	430	880	290
13	212	264	2,160	590	1,460	1,220	603	375	375	375	603	280
14	231	255	1,600	880	1,530	1,530	603	403	462	353	495	266
15	187	550	1,220	630	1,070	1,220	565	364	837	393	640	261
16	194	1,280	970	550	925	1,120	565	370	975	342	462	252
17	227	750	835	630	835	1,070	530	353	795	375	430	238
18	190	790	750	550	790	970	530	353	975	403	403	234
19	174	630	670	550	750	925	495	342	880	430	375	300
20	174	550	590	550	790	880	495	375	715	342	375	336
21	167	480	710	550	710	880	565	370	640	331	348	252
22	161	424	1,770	515	670	925	880	336	678	430	331	230
23	161	398	1,070	515	2,750	790	640	326	603	495	320	230
24	177	374	1,220	515	1,810	790	603	353	565	375	300	216
25	320	380	4,500	515	1,400	750	565	530	530	342	295	216
26	204	835	5,100	550	1,170	710	565	403	495	375	290	207
27	190	790	2,450	630	1,020	710	530	336	462	331	430	216
28	177	590	4,200	550	925	670	495	375	430	300	403	216
29	174	515	3,920	790	------	630	495	530	430	300	310	212
30	174	480	2,450	710	------	670	530	640	403	300	295	198
31	215	------	1,880	750	------	835	------	565	------	678	353	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	320	161	199	1.12	1.29
November	1,280	174	458	2.59	2.89
December	5,100	330	1,390	7.85	9.05
January	1,530	515	727	4.11	4.74
February	2,750	550	933	5.27	5.49
March	3,920	630	1,120	6.33	7.30
April	880	495	617	3.49	3.89
May	640	326	417	2.36	2.72
June	975	375	564	3.19	3.56
July	678	300	390	2.20	2.54
August	880	290	413	2.33	2.69
September	430	198	276	1.56	1.74
The year	5,100	161	625	3.53	47.90

TUCKASEGEE RIVER AT BRYSON, N. C.

LOCATION.—Water-stage recorder 400 feet below Main Street Bridge in Bryson, Swain County, half a mile downstream from mouth of Deep Creek. Staff gage at Main Street Bridge used to June 28, 1927.

DRAINAGE AREA.—673 square miles.

RECORDS AVAILABLE.—November, 1897, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,480 second-feet December 26 (gage height, 5.80 feet); minimum, 376 second-feet October 23 (gage height, 0.95 foot).

1897–1927: Maximum discharge, 38,600 second-feet March 19, 1899 (gage height, 11.0 feet, former gage datum); minimum, 27 second-feet September 10,1925 (gage height, 0.48 foot).

REMARKS.—Records good, except those for October 1–9, which are estimated. Considerable diurnal fluctuation caused by operation of Bryson municipal power plant on Oconalufty River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		604	1,310	3,130	1,610	2,090	1,850	1,460	1,930	1,030	1,460	778
2		496	1,170	2,770	1,540	2,090	1,690	1,170	1,540	1,030	962	690
3	590	466	1,100	2,430	1,540	2,010	1,540	1,170	1,540	1,170	804	1,170
4		466	1,030	2,260	1,460	1,770	1,460	1,100	1,460	1,030	1,030	1,240
5		456	1,170	2,010	1,460	1,850	1,540	1,100	1,100	1,100	1,170	882
6		466	895	1,850	1,690	2,010	1,690	1,170	1,100	1,030	830	962
7	650	446	895	1,690	1,610	2,260	1,460	1,100	1,310	962	678	895
8		426	962	1,610	1,540	7,080	1,460	1,100	1,170	1,030	740	856
9	500	1,710	1,540	1,540	1,540	5,640	1,460	1,100	1,100	1,100	1,030	843
10	527	1,600	1,770	1,540	1,690	4,640	1,610	962	1,240	1,240	962	869
11	527	962	1,310	1,310	1,540	2,950	1,540	962	1,240	1,240	2,180	804
12	527	791	1,460	1,310	1,610	3,310	1,460	895	1,610	1,030	2,430	728
13	571	715	3,490	1,380	3,130	2,950	1,380	962	1,460	1,030	1,460	665
14	690	740	2,950	1,850	3,310	3,870	1,310	962	1,610	1,030	1,240	628
15	593	1,790	2,260	1,540	2,430	3,130	1,310	895	2,600	962	1,380	616
16	506	5,000	2,180	1,540	2,090	2,770	1,240	882	2,260	1,170	1,100	571
17	426	2,260	1,850	1,460	1,930	2,430	1,240	962	1,770	1,100	1,030	571
18	406	2,260	1,690	1,310	1,770	2,260	1,240	895	3,310	1,030	1,030	560
19	406	1,770	1,460	1,170	1,850	2,180	1,170	765	2,430	1,170	895	869
20	396	1,540	1,310	1,240	1,850	2,090	1,170	740	1,930	895	856	690
21	386	1,310	1,380	1,240	1,610	2,090	1,460	1,540	1,770	962	804	593
22	386	1,170	3,360	1,310	1,540	2,090	2,430	1,170	1,690	962	765	560
23	386	1,100	3,380	1,460	5,540	1,930	2,010	628	1,540	1,100	740	549
24	486	1,030	2,180	1,310	3,870	1,850	1,610	856	1,460	882	702	527
25	740	1,030	5,660	1,310	2,600	1,770	1,460	962	1,310	804	678	516
26	582	1,770	7,740	1,380	2,770	1,690	1,310	1,030	1,240	765	715	516
27	486	1,770	4,600	1,540	2,260	1,690	1,240	882	1,170	740	1,100	516
28	466	1,540	7,020	1,380	2,090	1,610	1,170	962	1,170	715	962	516
29	486	1,380	7,320	1,930	-------	1,540	1,170	1,380	1,100	665	752	516
30	486	1,380	4,440	1,690	-------	1,610	1,240	3,490	1,100	715	725	496
31	527	-------	3,680	1,770	-------	1,850	-------	2,430	-------	962	869	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	----------	386	529	0.786	0.91
November	5,000	426	1,280	1.90	2.12
December	7,740	895	2,660	3.95	4.55
January	3,130	1,170	1,650	2.45	2.82
February	5,540	1,460	2,120	3.15	3.28
March	7,080	1,540	2,550	3.79	4.37
April	2,430	1,170	1,460	2.17	2.42
May	3,490	628	1,150	1.71	1.97
June	3,310	1,100	1,580	2.35	2.62
July	1,240	665	989	1.47	1.70
August	2,430	678	1,030	1.53	1.76
September	1,240	496	706	1.05	1.17
The year	7,740	386	1,470	2.18	29.69

OCONALUFTY RIVER AT CHEROKEE, N. C.

LOCATION.—Staff gage at cable footbridge one-fourth mile upstream from Cherokee Indian Reservation, three-fourths mile upstream from Cherokee, Swain County, and 2 miles upstream from Soco Creek.

DRAINAGE AREA.—133 square miles.

RECORDS AVAILABLE.—January, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,430 second-feet December 25 (gage height, 7.50 feet); minimum, 143 second-feet October 23; minimum gage height, 3.79 feet September 30.

1921–1927: Maximum discharge (estimated), 8,990 second-feet January 21, 1922 (gage height, 9.50 feet); minimum, 56 second-feet September 9, 1925 (gage height, 3.49 feet).

REMARKS.—Records good, except that for January 16, which is estimated. Slight diurnal fluctuation during low stages caused by operation of small power plant one-fourth mile upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	200	212	426	960	535	609	501	398	649	311	467	220
2	212	184	366	820	572	572	404	337	436	337	316	247
3	217	172	336	689	535	501	393	316	501	337	290	247
4	196	168	307	649	535	501	370	316	387	295	337	467
5	222	165	307	572	501	467	436	305	353	285	305	316
6	196	158	281	535	572	535	436	316	347	285	266	316
7	180	150	260	501	572	609	381	295	436	276	261	281
8	172	150	265	436	501	2,360	381	285	347	266	257	276
9	168	675	805	436	501	1,620	436	276	370	331	467	266
10	165	455	675	404	535	1,220	436	276	404	300	358	252
11	168	312	500	376	467	1,010	436	276	404	300	689	242
12	165	270	675	381	467	960	404	276	501	276	572	220
13	236	241	1,550	347	1,060	820	398	271	820	257	467	220
14	222	231	1,080	609	1,010	1,280	381	266	535	266	370	202
15	180	718	940	467	820	865	370	257	689	252	436	198
16	172	1,030	718	407	689	775	358	252	572	347	337	194
17	172	555	555	347	609	689	347	257	501	295	342	194
18	161	595	515	337	572	609	337	247	912	331	316	189
19	158	492	470	337	535	572	326	247	820	393	295	436
20	158	413	440	337	535	535	321	242	649	281	290	216
21	150	360	850	501	467	535	358	238	535	266	266	202
22	147	336	1,670	467	467	501	467	229	535	266	252	198
23	143	296	1,030	404	1,740	467	370	224	467	305	238	194
24	165	291	619	535	1,220	467	347	358	404	257	224	181
25	236	312	3,290	467	960	467	337	376	376	247	220	177
26	176	1,150	2,360	467	820	436	326	305	387	234	252	177
27	165	760	1,620	436	732	404	326	257	370	220	290	168
28	165	555	2,770	404	609	381	321	247	347	206	285	164
29	165	478	2,100	572	------	370	316	501	331	202	234	160
30	176	470	1,560	572	------	387	358	501	326	198	229	156
31	260	------	1,220	609	------	436	------	689	------	305	266	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	260	143	183	1.38	1.59
November	1,150	150	412	3.10	3.46
December	3,290	260	986	7.41	8.54
January	960	337	496	3.73	4.30
February	1,740	467	684	5.14	5.35
March	2,360	370	708	5.32	6.13
April	501	316	379	2.85	3.18
May	689	224	311	2.34	2.70
June	912	326	490	3.68	4.11
July	393	198	282	2.12	2.44
August	689	220	329	2.47	2.85
September	467	156	232	1.74	1.94
The year	3,290	143	457	3.44	46.59

CHEOAH RIVER AT JOHNSON, N. C.

LOCATION.—Staff gage 1 mile above store at Johnson, Graham County, and 2 miles below mouth of Santeetlah Creek. Site of proposed dam for development No. 2 of Aluminum Co. of America is 1 mile above station.

DRAINAGE AREA.—175 square miles.

RECORDS AVAILABLE.—November, 1912, to December, 1918, and December, 1920, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, about 8,410 second-feet December 25 (gage height, 8.2 feet); minimum, 130 second-feet October 7–10 and 21–23 (gage height, 0.90 foot).

1912–1918, 1920–1927: Maximum discharge, about 11,400 second-feet March 4, 1917; minimum, 37 second-feet September 11 and 12, 1925 (gage height, 0.48 foot).

REMARKS.—Records good below 2,000 second-feet, except for periods of estimated flow; others fair. Discharge estimated October 3, 4, January 16–18, March 18–30, September 20–27, 29, and 30.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	130	225	468	1,200	660	1,560	845	525	1,020	300	625	234
2	154	190	440	1,020	660	1,560	695	525	845	273	438	234
3	130	160	390	928	768	1,560	660	495	730	1,160	350	273
4	130	160	345	805	730	1,560	625	465	695	590	300	273
5	190	160	345	695	695	1,560	1,350	438	590	590	259	264
6	242	160	322	660	695	1,560	1,110	590	590	558	246	246
7	130	154	300	590	768	1,560	845	558	558	525	225	255
8	130	154	300	525	695	3,120	730	495	558	465	206	234
9	130	830	345	495	805	2,860	730	438	525	410	172	217
10	130	322	870	525	730	2,480	730	382	558	590	141	209
11	148	260	620	525	660	2,120	730	355	558	495	1,060	202
12	175	280	652	590	525	2,000	695	340	625	438	928	194
13	260	225	2,600	495	1,890	1,890	660	291	495	382	845	183
14	225	218	1,460	845	1,780	2,480	625	330	410	438	768	176
15	190	322	1,120	695	1,110	2,120	558	291	590	410	1,160	168
16	160	792	830	495	845	1,670	495	264	845	350	695	162
17	208	468	685	410	730	1,450	495	246	730	590	625	154
18	160	755	620	495	695	970	495	230	1,020	438	558	165
19	160	440	620	525	660	880	465	213	845	382	558	259
20	160	390	555	465	590	700	438	305	695	340	525	215
21	130	345	720	730	590	800	495	282	625	300	525	180
22	130	300	1,890	660	558	800	928	198	768	558	465	160
23	130	253	870	625	2,860	770	768	176	695	495	438	155
24	145	253	1,560	625	2,360	735	730	590	625	382	410	150
25	260	300	6,030	625	2,120	730	695	805	590	325	382	150
26	190	1,260	3,510	590	1,780	700	660	558	558	300	350	145
27	160	910	2,860	525	1,670	660	625	525	525	273	330	145
28	160	652	3,650	525	1,560	620	525	300	495	255	310	141
29	160	495	2,600	730	-------	590	410	410	438	230	291	140
30	160	525	1,780	768	-------	660	525	928	382	206	264	140
31	242	-------	1,450	695	-------	768	-------	1,350	-------	625	242	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	260	130	168	0.960	1.11
November	1,260	154	399	2.28	2.54
December	6,030	300	1,320	7.54	8.69
January	1,200	410	648	3.70	4.27
February	2,860	525	1,080	6.17	6.42
March	3,120	590	1,400	8.00	9.22
April	1,350	410	678	3.87	4.32
May	1,350	176	448	2.56	2.95
June	1,020	382	639	3.65	4.07
July	1,160	206	441	2.52	2.90
August	1,160	141	474	2.71	3.12
September	273	140	194	1.11	1.24
The year	6,030	130	656	3.75	50.85

CHEOAH RIVER AT TAPOCO, N. C.

LOCATION.—Staff gage at Tapoco, Graham County, a quarter of a mile above confluence with Little Tennessee River. Gage datum is mean sea level.

DRAINAGE AREA.—213 square miles.

RECORDS AVAILABLE.—September, 1924, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, 5,410 second-feet December 25 (gage height, 1,003.8 feet); minimum, 137 second-feet September 9, 10, 22, and 23 (gage height, 996.4 feet).

1924–1927: Maximum discharge, 6,130 second-feet December 8, 1924 (gage height, 1,004.4 feet); minimum, 33 second-feet September 9 and 10 1925 (gage height, 995.3 feet).

REMARKS.—Records below 2,500 second-feet good; others fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	184	239	550	1,430	850	1,090	970	690	1,360	410	850	310
2	184	197	475	1,150	1,030	1,030	850	595	970	380	550	310
3	160	184	410	1,030	910	910	795	550	850	850	440	330
4	160	172	380	970	740	910	690	550	690	550	550	310
5	184	160	380	850	740	910	850	510	640	475	595	290
6	255	160	355	795	740	1,220	970	690	550	440	475	272
7	160	160	330	740	1,030	1,360	850	550	690	410	410	310
8	148	160	410	740	795	4,280	740	510	550	440	380	290
9	137	910	1,220	740	850	3,290	850	510	510	410	740	272
10	137	440	970	690	850	2,350	850	475	510	795	440	290
11	148	290	740	640	795	1,900	850	440	550	1,150	1,090	272
12	197	255	740	550	850	1,580	740	410	550	640	1,030	239
13	272	239	2,450	595	1,900	1,360	740	410	550	550	740	224
14	255	224	1,660	1,150	1,900	1,740	640	440	740	550	640	210
15	184	850	1,220	640	1,360	1,360	640	410	1,030	550	1,220	197
16	160	970	970	475	1,090	1,290	640	380	970	640	740	197
17	224	595	850	550	970	1,150	640	380	795	850	640	197
18	172	850	740	640	970	1,090	595	380	1,290	640	595	197
19	160	640	690	595	970	1,030	550	380	1,030	640	510	330
20	148	475	595	740	1,030	970	550	410	850	475	475	255
21	142	410	850	795	795	970	595	410	740	440	440	210
22	137	355	2,170	690	795	970	1,150	380	970	640	355	210
23	137	330	1,150	595	3,620	850	740	380	795	510	380	197
24	160	290	1,820	740	2,170	850	690	740	690	440	355	184
25	290	355	4,770	690	1,820	850	640	1,030	640	410	330	184
26	197	1,580	4,060	690	1,360	795	595	640	550	355	330	184
27	172	1,150	2,170	640	1,220	740	595	475	550	330	330	184
28	172	795	3,840	640	1,030	740	550	640	516	310	355	184
29	172	640	3,180	1,030	-------	690	550	910	475	290	310	184
30	172	640	2,170	850	-------	740	740	1,090	475	290	310	184
31	197	-------	1,740	1,030	-------	1,150	-------	970	-------	640	330	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	290	137	180	0.845	0.97
November	1,580	160	490	2.30	2.57
December	4,770	330	1,420	6.67	7.69
January	1,430	475	777	3.65	4.21
February	3,620	740	1,180	5.54	5.77
March	4,280	690	1,300	6.10	7.03
April	1,150	550	728	3.42	3.82
May	1,090	380	559	2.62	3.02
June	1,360	475	736	3.46	3.86
July	1,150	290	532	2.50	2.88
August	1,220	310	546	2.56	2.95
September	330	184	240	1.13	1.26
The year	4,770	137	722	3.39	46.03

TELLICO RIVER AT TELLICO PLAINS, TENN.

LOCATION.—Staff gage 200 feet above highway bridge on Tellico Plains-Murphy Road and 1 mile southeast of Tellico Plains, Monroe County. Zero of gage is 846.84 feet above mean sea level.

DRAINAGE AREA.—120 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,200 second-feet June 12 (gage height, 9.5 feet); minimum, 49 second-feet September 30 (gage height, 0.76 foot).

1925–1927: Maximum discharge, that of June 12, 1927; minimum, 13 second-feet September 7, 1925 (gage height, 0.25 foot).

REMARKS.—Records good for medium and high stages; only fair for low stages because of changing control conditions. Discharge estimated October 19.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	102	346	1,220	412	430	425	325	243	201	150	95
2	58	74	297	470	378	450	365	250	215	187	156	87
3	52	72	266	412	362	515	345	268	184	385	150	115
4	46	58	266	378	297	560	285	250	168	250	222	150
5	61	58	251	313	297	635	605	250	150	222	229	100
6	112	60	251	297	297	710	645	465	141	156	156	112
7	55	61	222	236	430	660	465	250	156	156	138	115
8	49	80	297	236	346	2,560	385	243	156	168	126	115
9	49	91	1,170	207	329	2,140	385	232	147	198	150	93
10	46	76	963	207	430	1,220	565	212	144	268	138	85
11	55	72	585	193	430	861	525	208	153	505	215	79
12	67	65	635	236	430	710	425	201	3,080	325	525	75
13	70	55	1,930	207	1,630	560	385	187	780	305	215	73
14	93	80	1,370	470	1,120	1,220	385	174	1,140	305	177	69
15	63	266	1,010	251	760	780	285	159	1,470	198	525	65
16	55	560	912	251	492	690	305	171	870	159	285	61
17	52	102	610	236	515	605	285	168	565	268	229	59
18	52	810	560	222	395	505	250	168	565	250	194	57
19	49	378	430	222	430	485	250	168	485	250	177	268
20	46	207	395	207	362	445	250	212	405	208	174	87
21	46	251	538	266	362	465	645	180	365	201	150	71
22	45	251	1,010	207	362	405	1,730	168	645	222	138	63
23	45	207	710	222	2,300	325	645	168	445	180	126	59
24	61	193	810	251	1,270	385	445	168	385	168	118	59
25	124	193	3,080	207	760	385	385	174	305	150	115	57
26	80	912	3,140	236	585	325	345	162	285	123	110	55
27	65	710	1,420	266	492	305	325	162	250	115	115	55
28	58	412	3,290	251	430	268	285	168	232	105	120	55
29	58	362	1,680	412	------	250	250	250	208	105	100	52
30	58	395	912	395	------	268	425	325	194	95	95	49
31	80	------	810	585	------	505	------	250	------	123	95	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	124	45	61	0.507	0.59
November	912	55	240	2.00	2.23
December	3,140	222	973	8.11	9.35
January	1,220	193	315	2.62	3.02
February	2,300	297	597	4.98	5.19
March	2,560	250	665	5.54	6.39
April	1,730	250	443	3.69	4.12
May	465	159	217	1.81	2.09
June	3,080	141	484	4.03	4.50
July	505	95	211	1.76	2.03
August	525	95	181	1.51	1.74
September	268	49	84	.700	.78
The year	3,140	45	372	3.10	42.03

CLINCH RIVER AT CLEVELAND, VA.

LOCATION.—Chain gage on steel highway bridge in Cleveland, Russell County.
DRAINAGE AREA.—536 square miles.
RECORDS AVAILABLE.—October, 1920, to September, 1927.
EXTREMES.—Maximum discharge during year, not determined; maximum gage height, 21.1 feet December 22; minimum discharge, 50 second-feet September 28 (gage height, 1.80 feet).

1920–1927: Maximum discharge, not determined; maximum gage height, that of December 22, 1926; minimum discharge, that of September 28, 1927.
REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	396	770	1,800	1,880	1,130	890	1,270	1,970	222	190	112
2	82	396	685	1,410	1,410	1,070	1,270	1,010	1,560	184	373	108
3	152	329	602	1,200	1,130	830	950	890	1,560	287	266	88
4	208	287	520	1,070	1,010	830	830	890	3,990	308	242	125
5	187	266	470	1,010	950	741	712	1,130	4,320	168	190	101
6	161	246	470	890	950	1,010	712	830	3,440	125	161	152
7	573	222	470	830	1,070	1,340	600	890	2,840	97	138	105
8	120	184	470	741	1,130	2,060	546	1,720	2,540	115	152	97
9	108	546	548	684	1,010	2,440	950	2,540	1,800	373	171	147
10	97	141	4,370	656	890	1,560	2,340	1,560	1,270	287	254	136
11	141	396	3,080	600	830	1,410	1,800	1,200	1,070	238	230	329
12	171	287	1,930	546	830	1,130	1,560	1,010	770	155	212	520
13	219	164	1,590	546	712	1,010	3,340	830	890	144	147	258
14	350	234	1,750	628	1,800	1,640	4,540	712	1,130	222	152	150
15	308	573	1,370	712	1,560	1,480	2,840	628	1,800	144	152	164
16	266	3,770	1,100	770	1,720	1,200	2,060	712	890	141	141	120
17	246	2,480	860	770	2,150	1,070	1,560	656	890	174	133	103
18	246	1,440	740	712	2,440	1,130	1,270	600	712	201	287	105
19	262	1,100	648	712	2,840	830	2,060	656	600	262	329	97
20	329	860	712	656	7,580	770	1,970	1,070	573	152	396	105
21	770	685	9,670	600	4,100	712	2,060	830	444	101	329	90
22	546	520	18,400	600	2,940	770	6,140	656	770	120	262	97
23	396	395	6,020	628	5,200	520	3,880	573	573	152	197	82
24	350	348	4,540	712	6,020	546	2,240	469	573	158	161	74
25	373	370	4,540	741	3,240	600	1,560	573	520	144	155	73
26	600	602	5,090	770	2,240	546	1,270	628	329	120	144	74
27	656	1,750	5,420	770	1,560	494	950	520	373	133	128	67
28	494	1,510	4,870	830	1,340	444	770	741	420	122	122	52
29	420	1,100	6,500	1,270	------	396	950	830	254	128	112	54
30	350	920	3,880	2,150	------	396	770	2,740	208	144	110	62
31	308	------	2,240	2,940	------	420	------	4,320	------	158	118	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	770	82	309	0.576	0.66
November	3,770	141	751	1.40	1.56
December	18,400	470	3,040	5.67	6.54
January	2,940	546	934	1.74	2.01
February	7,580	712	2,160	4.03	4.20
March	2,440	396	985	1.84	2.12
April	6,140	546	1,780	3.32	3.70
May	4,320	469	1,090	2.03	2.34
June	4,320	208	1,300	2.43	2.71
July	373	97	177	.330	.38
August	396	110	199	.371	.43
September	520	52	128	.239	.27
The year	18,400	52	1,060	1.98	26.92

CLINCH RIVER AT SPEER FERRY, VA.

LOCATION.—Chain gage on highway bridge half a mile below Copper Creek and three-fourths mile from Speer Ferry, Scott County. Prior to November 22, 1926, staff gage 400 feet upstream was used. Chain-gage datum 1.50 feet lower than staff-gage datum.

DRAINAGE AREA.—1,140 square miles.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 27,500 second-feet December 22 (gage height, 24.70 feet); minimum, 175 second-feet September 29 (gage height, 1.55 feet).

1920–1927: Maximum discharge, about 37,200 second-feet February 3, 1923 (gage height, 24.35 feet); minimum, 81 second-feet September 10, 1925 (gage height, −0.32 foot).

REMARKS.—Records good. Discharge estimated December 24, January 3–9, 11–18, 20–28, and August 18–29. Low-water flow is slightly regulated by Speer Ferry roller mill which is just above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	220	635	2,360	3,850	5,650	2,620	805	2,000	7,570	645	708	375
2	335	735	1,670	2,880	3,370	2,750	4,810	2,360	4,330	535	922	465
3	255	635	1,570	2,490	2,490	2,120	3,850	2,360	3,970	1,190	772	560
4	190	590	1,470	2,360	3,130	2,000	2,240	1,670	3,130	922	675	510
5	335	522	1,370	2,000	3,970	1,890	1,780	1,470	2,490	840	645	1,370
6	295	735	1,280	1,670	3,850	1,780	1,670	1,370	2,240	772	560	1,190
7	255	455	1,110	1,570	3,490	2,240	1,470	1,280	3,970	675	535	950
8	220	415	1,370	1,370	3,490	6,850	1,280	3,010	5,890	535	510	708
9	190	1,020	3,250	1,280	3,250	6,130	2,240	5,890	4,210	442	675	510
10	181	4,170	8,680	1,280	2,490	5,410	6,250	4,570	3,610	1,280	645	420
11	205	2,330	7,570	1,190	2,000	3,490	6,010	3,850	2,490	535	588	352
12	190	1,240	4,450	1,110	1,570	3,010	4,810	2,240	2,120	488	535	645
13	335	840	3,610	950	1,570	2,880	3,250	2,120	3,730	465	510	840
14	735	735	5,650	922	3,610	2,120	6,970	1,890	3,970	420	488	708
15	1,020	1,090	4,690	840	3,370	3,970	7,800	1,570	3,490	398	465	615
16	785	12,000	3,730	1,110	3,130	4,090	4,810	1,470	2,880	352	510	535
17	635	9,450	2,620	1,190	2,620	3,250	3,730	1,280	2,490	310	465	465
18	500	4,430	2,000	1,370	5,050	2,490	3,130	1,190	2,120	290	588	420
19	415	2,670	1,670	1,280	6,730	2,000	3,730	1,110	2,000	740	1,570	375
20	500	2,110	1,470	1,370	8,570	1,470	5,650	1,030	1,780	488	1,370	330
21	635	1,600	6,850	1,370	9,120	1,110	10,700	990	1,470	442	1,190	310
22	955	1,330	26,700	1,470	5,890	1,370	11,600	950	1,370	398	1,110	290
23	785	1,280	18,500	1,570	11,300	1,280	8,680	922	1,190	375	950	250
24	635	1,190	19,800	1,570	14,400	1,190	6,490	875	1,110	352	840	235
25	685	922	15,300	1,890	9,120	1,190	4,210	772	990	310	805	220
26	1,020	1,370	18,300	1,780	7,330	1,110	3,130	645	950	290	805	205
27	1,240	5,410	10,700	1,670	6,130	1,110	2,360	560	875	330	840	190
28	895	5,170	7,800	1,570	3,850	990	2,000	510	805	375	535	184
29	685	3,610	13,600	2,750	------	950	1,670	3,730	740	488	375	178
30	590	2,880	9,560	4,330	------	875	1,570	14,000	675	588	442	190
31	635	------	5,530	6,730	------	840	------	9,890	------	510	398	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,240	181	534	0.468	0.54
November	12,000	415	2,390	2.10	2.34
December	26,700	1,110	6,910	6.06	6.99
January	6,730	840	1,900	1.67	1.92
February	14,400	1,570	5,020	4.40	4.58
March	6,850	840	2,410	2.11	2.43
April	11,600	805	4,290	3.76	4.20
May	14,000	510	2,500	2.19	2.52
June	7,570	675	2,620	2.30	2.57
July	1,280	290	541	.475	.55
August	1,570	375	710	.623	.72
September	1,370	178	486	.426	.48
The year	26,700	178	2,510	2.20	29.84

CLINCH RIVER NEAR TAZEWELL, TENN.

LOCATION.—Water-stage recorder at Evans Ferry 600 feet below highway bridge on Tazewell-Morristown Road, 2½ miles above mouth of Indian Creek, and 7½ miles southeast of Tazewell, Claiborne County. Zero of gage is 1,012.55 feet above mean sea level.

DRAINAGE AREA.—1,500 square miles.

RECORDS AVAILABLE.—August to September, 1927.

EXTREMES.—Maximum discharge during period of record, 6,280 second-feet August 18 (gage height, 5.2 feet); minimum mean daily discharge, 251 second-feet September 30 (gage height, 1.32 feet).

REMARKS.—Records good. Discharge interpolated August 14 and 21.

Daily and monthly discharge, in second-feet, 1927

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1		542	11	1,410	505	21	1,600	319
2		483	12	825	679	22	1,240	307
3		455	13	845	768	23	980	290
4		542	14	1,070	958	24	778	290
5		550	15	1,300	654	25	662	278
6		455	16	787	512	26	589	278
7		434	17	621	434	27	758	273
8	448	414	18	4,940	394	28	704	262
9	542	688	19	2,940	374	29	528	256
10	749	520	20	1,960	343	30	565	251
						31	597	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 8–31	4,940	448	1,140	0.760	0.68
September	958	251	450	.300	.33

CLINCH RIVER NEAR LONE MOUNTAIN, TENN.

LOCATION.—Chain gage on Southern Railway bridge at Clinch River station three-fourths mile below mouth of Dutch Creek and 3½ miles southeast of Lone Mountain, Claiborne County. Zero of gage is 958.19 feet above mean sea level.

DRAINAGE AREA.—1,560 square miles.

RECORDS AVAILABLE.—April, 1919, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, 38,800 second-feet December 23 (gage height, 19.95 feet); minimum, 257 second-feet October 3 (gage height, 2.94 feet).

1919–1927: Maximum discharge, 39,700 second-feet February 4, 1923 (gage height, 20.3 feet); minimum, 108 second-feet September 11, 1925 (gage height, 2.64 feet).

REMARKS.—Records good except those estimated, which are fair. Operation of small mills upstream causes slight fluctuation in stage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	279	765	2,890	6,470	8,490	4,210	1,480	2,250	15,600	800	465	595
2	279	800	2,370	5,030	6,470	3,600	3,310	2,250	8,710	765	628	a603
3	257	765	1,900	3,900	4,690	3,310	5,200	2,630	5,200	1,030	595	a611
4	369	a720	1,790	3,170	3,750	2,890	3,900	2,250	7,650	2,130	628	a619
5	312	a675	a1,580	2,890	a3,600	2,630	2,890	2,130	6,470	1,480	730	628
6	562	a630	1,380	2,630	3,450	2,500	2,370	2,250	5,910	1,070	595	465
7	435	595	1,380	2,370	3,750	2,500	2,250	2,250	4,690	912	530	435
8	345	562	1,290	2,130	3,600	5,030	2,010	1,900	4,370	838	465	435
9	323	950	1,680	1,900	3,310	10,600	2,010	2,500	5,200	765	498	435
10	301	1,480	6,850	1,680	3,170	9,610	2,890	6,850	4,210	695	660	628
11	279	4,210	10,300	1,680	2,760	6,850	7,650	4,530	4,370	a804	875	562
12	279	2,500	8,070	1,480	2,500	5,030	6,850	3,310	3,170	912	a894	530
13	290	1,650	6,090	1,380	3,030	4,050	4,690	2,630	2,630	765	912	695
14	a378	1,290	6,470	1,290	4,860	4,050	3,750	2,250	2,370	695	838	1,110
15	465	1,290	6,090	1,580	5,370	4,530	7,250	2,010	2,130	628	1,900	800
16	838	2,630	4,370	1,900	5,030	4,860	8,280	1,790	3,450	562	912	595
17	1,030	10,800	3,450	1,680	4,050	4,210	5,370	1,790	2,890	562	765	498
18	a828	9,150	2,370	1,680	4,050	3,450	4,370	1,580	2,370	562	2,890	435
19	628	4,370	2,130	1,900	9,380	2,890	4,050	a1,480	2,250	562	3,170	435
20	530	3,170	2,010	1,790	10,100	2,630	4,530	1,380	1,900	595	2,370	387
21	562	2,500	3,450	1,900	12,200	2,370	5,030	1,290	1,680	595	1,480	a364
22	530	2,010	16,600	2,250	10,800	2,130	8,710	1,680	1,680	628	1,480	a341
23	1,030	a1,740	38,800	2,370	11,500	1,900	15,300	1,380	1,680	562	a1,180	a318
24	990	1,480	20,800	2,370	24,300	1,790	13,200	1,290	1,480	765	875	296
25	912	1,290	16,100	2,370	18,800	1,790	7,250	1,200	1,290	498	730	296
26	1,290	1,480	27,800	2,630	10,600	1,580	5,030	1,200	1,380	465	628	284
27	a1,340	3,750	24,300	2,630	7,050	1,480	3,900	1,290	1,380	435	562	274
28	1,380	6,090	14,300	2,370	5,370	1,380	3,170	1,580	a1,210	405	875	274
29	1,110	5,030	16,400	3,170	-------	1,290	2,630	3,600	a1,040	381	a752	262
30	912	a3,960	18,000	4,690	-------	1,200	2,370	6,850	875	369	628	262
31	800	-------	11,300	6,850	-------	1,200	-------	26,600	-------	369	562	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,380	257	641	0.411	0.47
November	10,800	562	2,610	1.67	1.86
December	38,800	1,290	9,110	5.84	6.73
January	6,850	1,290	2,650	1.70	1.96
February	24,300	2,500	7,000	4.49	4.68
March	10,600	1,200	3,470	2.22	2.56
April	15,300	1,480	5,060	3.24	3.62
May	26,600	1,200	3,160	2.03	2.34
June	15,600	875	3,640	2.33	2.60
July	2,130	369	729	.468	.54
August	3,170	465	1,000	.641	.74
September	1,110	262	482	.309	.34
The year	38,800	257	3,270	2.10	28.44

a Discharge estimated; gage not read.

CLINCH RIVER NEAR COAL CREEK, TENN.

LOCATION.—Water-stage recorder near highway bridge at Massengill's store 3½ miles east of town of Coal Creek, Anderson County. Coal Creek enters three-fourths mile downstream. Prior to September 9, 1927, temporary staff gage at same site used. Zero of both gages is 808.95 feet above mean sea level.

DRAINAGE AREA.—2,960 square miles.

RECORDS AVAILABLE.—May to September, 1927.

EXTREMES.—Maximum discharge during period of record, 44,000 second-feet June 1 (gage height, 22.9 feet); minimum mean daily discharge, 608 second-feet September 30 (gage height, 0.82 foot).

REMARKS.—Records good below 10,000 second-feet and fair above. Discharge estimated May 30, 31, June 2, 3, 17–21, July 25–28, and August 25 and 26.

Daily and monthly discharge, in second-feet, 1927

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1		36,000	1,760	950	1,080	16		2,780	1,360	2,460	1,360
2		23,000	1,810	941	1,070	17		4,100	1,310	1,510	1,100
3		11,000	1,810	1,000	1,070	18		3,750	1,310	4,540	1,000
4		14,800	2,010	1,070	1,120	19		3,300	1,310	6,980	1,130
5		12,200	2,720	1,120	959	20		2,850	1,260	5,170	1,130
6		11,200	2,720	1,080	959	21		2,500	1,220	3,050	932
7		8,390	2,110	1,000	932	22		2,160	1,130	2,720	833
8		6,680	1,860	959	932	23		2,110	1,220	2,210	788
9		5,300	1,660	995	995	24		2,110	1,130	1,860	716
10		4,910	1,760	1,130	1,090	25		2,110	1,500	1,660	716
11		4,540	2,310	1,510	1,460	26		2,060	1,380	1,360	707
12		4,180	2,010	2,460	1,220	27	2,010	2,060	1,200	1,180	698
13		3,820	1,610	1,660	1,130	28	4,660	2,060	1,090	1,080	671
14		3,270	1,510	1,510	1,260	29	6,390	2,010	986	1,310	644
15		3,050	1,460	1,810	1,710	30	10,000	1,910	977	1,130	608
						31	19,000		968	1,130	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
May 27–31	19,000	2,010	8,410	2.84	0.53
June	36,000	1,910	6,340	2.14	2.39
July	2,720	968	1,560	.527	.61
August	6,980	941	1,890	.639	.74
September	1,710	608	1,000	.338	.38

CLINCH RIVER AT CLINTON, TENN.

LOCATION.—Chain gage on highway bridge at Clinton, Anderson County, 1,000 feet below Southern Railway bridge. Zero of gage is 776.61 feet above mean sea level.

DRAINAGE AREA.—3,090 square miles.

RECORDS AVAILABLE.—October, 1918, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, 64,400 second-feet December 24 (gage height, 32.3 feet); minimum, 628 second-feet September 30 (gage height, 3.05 feet).

1918–1927: Maximum discharge, that of December 24, 1926; minimum, 340 second-feet October 4 and 5, 1919 (gage height, 2.4 feet).

United States Weather Bureau reports stage of 45.0 feet March 31, 1886, which is maximum since December 1, 1884. The next highest stage is 38.0 feet March 5, 1917.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	1,710	7,360	18,100	16,800	9,550	3,400	4,450	38,500	1,800	955	1,160
2	1,090	1,620	6,000	12,200	16,800	8,060	4,830	4,090	23,900	1,710	955	1,230
3	955	1,540	5,090	9,400	11,800	7,360	8,500	4,450	12,000	1,620	1,090	1,160
4	770	1,540	4,330	7,780	9,250	6,800	9,100	4,450	12,700	1,890	1,090	1,230
5	830	1,540	3,850	6,660	8,060	6,520	7,080	3,970	12,500	3,070	1,230	1,090
6	890	1,380	3,400	5,870	8,060	6,130	6,000	3,850	11,300	3,180	1,230	1,090
7	1,090	1,230	3,070	5,220	7,920	6,130	5,220	3,850	8,950	2,360	1,160	1,020
8	955	1,160	3,070	4,700	8,350	9,250	4,830	3,620	7,500	1,980	1,020	955
9	890	1,540	3,400	4,210	7,920	17,600	4,830	3,290	7,640	1,800	955	955
10	770	2,760	12,000	3,970	7,500	28,000	5,480	4,570	7,640	1,710	1,300	1,020
11	770	4,450	17,600	3,620	6,660	19,800	7,920	8,500	7,080	2,080	1,540	1,540
12	740	6,260	19,800	3,400	6,000	13,600	14,700	6,130	6,800	1,710	2,080	1,300
13	740	4,450	14,900	3,180	6,520	10,300	11,800	5,090	5,610	1,710	1,890	1,090
14	710	3,180	12,700	2,560	9,860	11,000	8,500	4,330	4,830	1,620	1,710	1,230
15	710	2,660	12,700	2,860	10,700	11,300	7,500	3,730	4,450	1,460	1,710	1,540
16	740	5,740	11,300	2,960	10,700	11,000	12,800	3,400	4,210	1,380	2,260	1,460
17	1,160	7,780	8,800	3,510	9,400	10,200	11,800	3,290	5,740	1,380	1,710	1,160
18	1,540	17,200	6,800	3,400	9,400	8,800	8,950	3,180	5,090	1,300	4,210	955
19	1,300	12,200	5,480	3,290	14,900	7,360	7,360	2,860	4,570	1,300	7,640	1,380
20	1,090	7,080	4,570	3,620	19,600	6,520	7,360	2,760	4,090	1,230	5,350	1,160
21	955	5,610	8,500	3,970	20,900	6,000	7,780	2,660	3,730	1,230	4,330	955
22	890	4,700	23,200	5,220	20,700	5,220	11,500	2,460	3,400	1,230	3,070	830
23	955	3,850	48,800	5,610	24,400	4,830	14,900	2,760	3,510	1,300	2,560	740
24	1,380	3,290	62,900	5,870	35,700	4,450	25,400	2,460	3,180	1,230	2,080	710
25	1,800	2,960	48,500	5,870	43,800	4,210	16,400	2,260	3,400	1,710	1,710	682
26	1,800	3,620	61,400	5,740	30,700	3,970	10,200	2,460	2,960	1,460	1,460	682
27	1,620	6,940	61,400	5,870	16,800	3,620	7,780	2,260	2,960	1,160	1,300	655
28	1,980	9,400	47,900	5,610	12,300	3,400	6,390	2,260	2,660	1,090	1,230	655
29	2,460	11,600	39,100	6,800	------	3,180	5,480	6,260	2,260	955	1,460	655
30	2,080	9,400	36,000	9,100	------	2,960	4,830	10,700	1,980	955	1,230	628
31	1,800	------	31,200	15,200	------	2,960	------	20,200	------	955	1,300	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,460	710	1,170	0.379	0.44
November	17,200	1,160	4,950	1.60	1.78
December	62,900	3,070	20,500	6.63	7.64
January	18,100	2,560	5,980	1.94	2.24
February	43,800	6,000	14,700	4.76	4.96
March	28,000	2,960	8,390	2.72	3.14
April	25,400	3,400	8,950	2.90	3.24
May	20,200	2,260	4,540	1.47	1.70
June	38,500	1,980	7,500	2.43	2.71
July	3,180	955	1,600	.518	.60
August	7,640	955	2,030	.657	.76
September	1,540	628	1,030	.333	.37
The year	62,900	628	6,720	2.17	29.58

POWELL RIVER NEAR PENNINGTON GAP, VA.

LOCATION.—Chain gage on highway bridge 1,000 feet below North Fork and 3 miles southeast of Pennington Gap, Lee County.

DRAINAGE AREA.—304 square miles.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 22,000 second-feet December 21 (gage height, 22.60 feet); minimum, 30 second-feet September 25 and 29 (gage height, 1.66 feet).

1920–1927: Maximum discharge, that of December 21, 1926; minimum, 14 second-feet October 15 and 17, 1923, September 5 and 6, 1925 (gage height, 1.51 feet).

REMARKS.—Records good. Two small gristmills above gage cause considerable diurnal fluctuation, and a large steam plant on North Fork uses practically the entire flow of that stream, during low-water season, for condenser and boiler feed water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	260	584	1,130	1,620	608	1,550	514	1,480	103	86	94
2	163	214	492	764	1,060	560	1,780	449	1,130	88	84	84
3	116	186	428	560	820	470	1,000	408	1,410	388	74	76
4	96	168	369	514	1,000	428	658	388	1,550	369	68	76
5	101	155	331	492	940	388	584	369	1,410	294	64	84
6	101	138	350	428	940	537	492	331	1,700	229	60	96
7	82	123	276	388	1,000	940	428	369	1,550	214	46	66
8	66	103	294	331	1,000	7,260	449	428	1,270	200	68	160
9	54	633	1,620	331	820	2,620	710	1,340	1,130	200	163	127
10	58	880	3,980	312	658	710	5,480	940	1,060	160	143	99
11	62	350	1,780	260	584	514	2,350	764	1,000	132	153	276
12	70	428	1,000	200	492	608	1,270	584	764	116	148	312
13	74	294	1,860	260	633	658	1,200	428	350	123	138	136
14	80	260	1,550	369	1,130	1,130	3,080	428	331	134	60	110
15	99	276	880	331	1,130	1,200	2,890	449	820	105	134	82
16	78	6,270	492	294	820	880	2,020	449	350	84	96	74
17	78	1,130	633	331	1,340	710	1,780	428	294	200	107	70
18	78	880	492	388	1,860	584	1,340	388	276	129	1,000	58
19	86	710	470	369	4,580	492	1,200	350	260	121	470	60
20	103	584	408	428	2,620	449	1,060	276	229	107	312	60
21	229	492	12,300	710	2,020	408	3,180	260	200	84	260	60
22	158	338	11,200	880	1,340	388	7,500	229	214	70	214	56
23	134	312	2,350	820	7,860	331	2,350	214	214	112	138	49
24	170	276	1,700	820	4,480	312	1,340	200	200	103	118	39
25	584	312	10,000	820	1,860	350	1,000	229	186	88	103	33
26	428	1,060	7,260	764	1,200	312	764	260	183	74	148	38
27	312	2,710	2,260	608	880	260	658	710	160	66	276	38
28	244	1,200	2,180	560	710	229	537	1,620	134	54	129	38
29	200	820	3,380	1,550	-------	229	449	3,180	121	36	105	32
30	176	710	1,940	2,440	-------	214	492	16,500	110	54	86	36
31	200	-------	1,270	2,530	-------	229	-------	3,780	-------	58	84	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	584	54	148	0.487	0.56
November	6,270	103	744	2.45	2.73
December	12,300	276	2,380	7.86	9.06
January	2,530	200	677	2.23	2.57
February	7,860	492	1,620	5.33	5.55
March	7,260	214	807	2.65	3.06
April	7,500	428	1,590	5.23	5.84
May	16,500	200	1,200	3.95	4.55
June	1,700	110	670	2.20	2.46
July	388	36	139	.457	.53
August	1,000	46	166	.546	.63
September	312	32	87.3	.287	.32
The year	16,500	32	848	2.79	37.86

POWELL RIVER NEAR ARTHUR, TENN.

LOCATION.—Water-stage recorder at highway bridge at McHenry's ford on Dixie Highway 3½ miles east of Arthur, Claiborne County. Prior to July 23, 1927, chain gage at same site was used. Zero of both gages is 1,045.84 feet above mean sea level.

DRAINAGE AREA.—685 square miles.

RECORDS AVAILABLE.—October, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 22,700 second-feet December 23 (gage height, 20.4 feet); minimum, 120 second-feet September 30 (gage height, 0.28 foot).

1919–1927: Maximum discharge, that of December 23, 1926; minimum, 82 second-feet September 10 and 11, 1925 (gage height, 0.00 foot).

Maximum stage known, 27.2 feet January 29, 1918.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	251	485	1,700	3,110	5,750	1,840	1,090	1,000	8,000	424	218	240
2	243	460	1,440	2,400	3,560	1,660	2,570	1,090	3,560	418	218	222
3	231	460	1,180	1,840	2,570	1,490	3,020	970	3,830	649	210	230
4	239	410	1,060	1,560	2,240	1,360	1,920	910	4,930	1,030	250	260
5	291	361	940	1,360	2,160	1,210	1,460	852	3,740	1,000	240	230
6	314	337	820	1,240	2,080	1,360	1,270	825	2,570	693	214	198
7	278	314	940	1,090	2,240	1,520	1,210	742	1,960	566	198	198
8	239	291	880	1,000	2,320	5,030	1,210	676	1,960	506	206	206
9	218	820	2,120	910	2,160	10,700	1,240	1,030	1,800	473	368	451
10	202	1,570	5,860	852	1,700	6,080	1,920	2,000	1,560	440	352	578
11	202	1,980	7,290	825	1,560	4,030	5,430	1,390	1,880	396	550	358
12	206	1,180	3,440	770	1,390	2,930	3,830	1,150	1,630	363	440	270
13	202	820	3,260	715	1,600	2,320	2,400	970	1,270	336	320	418
14	202	672	4,000	770	2,320	2,660	2,080	852	1,120	336	280	396
15	222	645	3,710	852	2,930	3,110	3,110	798	1,490	315	418	280
16	239	1,700	2,500	940	2,480	2,840	4,130	798	1,520	305	265	222
17	243	5,860	1,910	825	2,480	2,320	2,660	770	1,270	310	280	194
18	235	2,900	1,440	852	3,930	2,000	2,000	742	1,090	358	1,120	186
19	226	1,910	1,180	880	5,640	1,600	1,880	742	1,060	346	1,490	210
20	218	1,500	1,840	910	7,070	1,420	2,080	676	940	330	1,210	190
21	210	1,180	4,900	1,090	4,930	1,270	1,880	610	825	315	715	176
22	210	1,000	16,400	1,490	3,470	1,120	2,750	550	770	285	544	158
23	202	880	19,300	1,700	5,230	1,060	8,360	522	770	561	456	155
24	361	730	6,740	1,630	12,900	940	4,730	512	715	649	380	149
25	535	820	13,200	1,660	8,840	910	2,660	534	638	402	320	137
26	760	1,840	20,400	1,740	4,530	852	1,880	522	622	305	270	125
27	730	3,080	14,400	1,560	3,110	798	1,520	512	594	250	290	125
28	672	4,600	7,400	1,360	2,320	742	1,330	610	539	235	290	125
29	485	2,740	9,320	2,160	-------	688	1,150	3,110	495	222	315	125
30	410	1,980	7,880	3,830	-------	660	1,060	6,630	462	214	280	122
31	435	-------	4,830	5,640	-------	660	-------	13,600	-------	214	240	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	760	202	313	0.457	0.53
November	5,860	291	1,450	2.12	2.36
December	20,400	820	5,560	8.12	9.36
January	5,640	715	1,530	2.23	2.57
February	12,900	1,390	3,700	5.40	5.62
March	10,700	660	2,170	3.17	3.66
April	8,360	1,060	2,460	3.59	4.00
May	13,600	512	1,510	2.20	2.54
June	8,000	462	1,790	2.61	2.91
July	1,030	214	427	.623	.72
August	1,490	198	418	.610	.70
September	578	122	231	.337	.38
The year	20,400	122	1,780	2.60	35.35

EMERY RIVER AT DEERMONT, TENN.

LOCATION.—Chain gage on highway bridge at Deermont siding on Cincinnati, New Orleans & Texas Pacific Railway 500 feet above Crab Orchard Creek and 3.2 miles north of Oakdale, Morgan County. Zero of gage is 791.37 feet above mean sea level.

DRAINAGE AREA.—702 square miles.

RECORDS AVAILABLE.—July, 1920, to September, 1927; discontinued.

EXTREMES.—Maximum discharge during year, about 40,700 second-feet December 25 (gage height, 17.8 feet); minimum mean daily discharge, 11 second-feet September 26 (gage height, 0.32 foot).

1920–1927: Maximum discharge, that of December 25, 1926; minimum, 2.2 second-feet August 22, 1924 (gage height, −0.11 foot); minimum stage was probably as low or lower during 1925.

REMARKS.—Records good except those for extremely high stages, which are fair. Discharge estimated September 6, 15, 21, and 22.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	93	2,640	2,510	3,990	1,640	2,640	765	3,060	217	900	115
2	108	93	2,000	2,000	3,060	1,640	3,830	640	2,250	168	640	103
3	112	93	1,640	1,640	2,510	1,200	2,640	495	2,380	150	380	103
4	234	93	1,310	1,530	2,380	1,260	1,880	465	2,250	130	273	87
5	175	93	1,100	1,200	2,380	1,200	2,120	408	1,530	108	330	65
6	142	93	950	1,000	2,780	2,250	3,060	565	1,150	93	355	47
7	118	93	810	855	3,670	2,640	2,380	1,000	1,050	132	224	40
8	118	93	765	720	3,060	8,120	2,120	810	855	330	183	62
9	108	640	1,310	640	2,510	8,120	3,510	680	640	183	162	95
10	95	1,310	5,250	602	2,000	8,120	3,830	602	495	269	765	138
11	91	950	3,670	565	1,640	3,670	3,830	602	435	204	465	183
12	95	680	2,640	495	1,420	3,210	3,060	680	495	150	308	145
13	95	495	6,680	465	2,120	3,060	2,510	565	435	145	810	112
14	91	355	4,690	435	4,160	12,800	2,120	640	2,120	132	530	78
15	91	2,380	3,060	408	3,210	6,040	1,760	602	1,760	103	765	57
16	80	8,390	2,120	408	2,510	3,510	1,640	495	1,200	330	900	45
17	81	3,510	1,640	408	2,000	2,640	2,640	408	900	950	602	38
18	81	2,640	1,360	408	2,120	2,120	2,120	355	2,510	3,830	5,640	26
19	67	2,380	1,150	408	4,690	1,760	1,640	330	3,830	1,760	2,250	22
20	62	1,760	1,000	408	3,830	1,640	1,640	308	2,250	765	1,150	22
21	56	1,310	9,530	1,360	3,060	1,530	1,760	308	1,530	602	720	22
22	45	1,150	16,100	3,510	2,780	1,420	5,440	435	1,530	355	495	20
23	41	950	7,610	2,640	25,700	1,200	3,360	308	1,530	330	308	19
24	44	810	12,200	2,640	10,400	855	2,380	285	1,150	308	277	16
25	40	810	40,400	2,380	4,870	1,150	1,880	408	900	228	261	14
26	64	2,780	17,300	2,000	3,210	1,100	1,530	640	680	170	228	11
27	101	3,510	7,610	1,760	2,380	1,000	1,200	435	530	138	195	13
28	101	2,380	19,100	1,640	1,760	602	1,000	380	380	110	175	14
29	101	2,120	11,600	3,990	-------	565	810	3,360	273	93	165	13
30	97	3,210	5,250	5,840	-------	565	720	4,510	234	78	152	13
31	93	-------	3,510	6,460	-------	530	-------	3,670	-------	101	138	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	234	40	95.3	0.136	0.16
November	8,390	93	1,510	2.15	2.40
December	40,400	765	6,320	9.00	10.38
January	6,460	408	1,660	2.36	2.72
February	25,700	1,420	3,940	5.61	5.84
March	12,800	530	2,810	4.00	4.61
April	5,440	720	2,370	3.38	3.77
May	4,510	285	844	1.20	1.38
June	3,830	234	1,340	1.91	2.13
July	3,830	78	408	.581	.67
August	5,640	138	669	.953	1.10
September	183	11	57.9	.082	.09
The year	40,400	11	1,820	2.59	35.25

EMERY RIVER AT HARRIMAN, TENN.

LOCATION.—Staff gage at Tennessee Central Railroad bridge in Harriman, Roane County, 1,000 feet above highway bridge. Zero of gage is 717.38 feet above mean sea level.

DRAINAGE AREA.—793 square miles.

RECORDS AVAILABLE.—June to September, 1927.

EXTREMES.—Maximum discharge during period of record, 5,840 second-feet July 18 and August 18 (gage height, 8.2 feet); minimum, 10 second-feet September 29 (gage height, 0.50 foot).

REMARKS.—Records good. Discharge interpolated August 14 and September 4. Water for Harriman water supply is diverted at filtration plant 1,000 feet above gage. This has no appreciable effect except at extremely low stages.

Daily and monthly discharge, in second-feet, 1927

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1		234	600	121	16		405	1,160	54
2		188	705	102	17		2,250	780	42
3		142	468	102	18		4,440	5,740	40
4		124	310	95	19		1,930	2,410	36
5		110	315	88	20		742	1,380	30
6		92	405	74	21		468	892	27
7		82	265	64	22		375	670	24
8		98	200	64	23		363	500	20
9		180	156	92	24		290	375	16
10		159	818	80	25		238	310	14
11		229	280	108	26		180	260	13
12		180	1,000	152	27		139	247	13
13		152	930	115	28		112	200	12
14		124	1,040	86	28		98	176	10
15		238	1,160	66	30	265	130	152	12
					31		242	136	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
July	4,440	82	475	0.599	0.69
August	5,740	136	776	.979	1.13
September	152	10	59.1	.075	.08

DADDY CREEK NEAR GRASSY COVE,[2] TENN.

LOCATION.—Staff gage at highway bridge on Crossville-Grassy Cove road 3 miles northwest of Grassy Cove, Cumberland County, and 5 miles above mouth of Bird Creek. Prior to July 7, 1927, tape gage at same site was used.

DRAINAGE AREA.—46.4 square miles.

RECORDS AVAILABLE.—August, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,790 second-feet December 25 (gage height, 17.2 feet); minimum, 0.3 second-foot July 14 and 28 (gage height, 1.31 feet).

1925–1927: Maximum discharge, that of December 25, 1926; no flow September 6 and 15–28, 1925.

REMARKS.—Records good below 1,000 second-feet and fair above. Discharge interpolated February 19.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	21	179	192	291	108	382	53	108	7.5	89	5.8
2	4.0	24	134	146	276	108	336	44	89	6.1	33	6.5
3	2.8	26	108	114	262	114	220	39	101	5.2	18	8.6
4	3.7	27	89	101	248	127	166	34	83	4.3	71	7.2
5	2.1	20	73	83	206	166	179	36	65	4.0	179	5.5
6	1.1	21	70	73	179	234	276	234	57	2.4	67	4.0
7	.8	18	72	58	248	262	248	192	51	3.7	40	4.0
8	2.1	9.7	58	53	248	513	206	134	42	4.6	24	5.5
9	3.7	66	248	48	166	840	220	101	30	2.8	27	11
10	5.2	192	336	49	153	605	366	70	24	3.7	37	26
11	3.7	114	234	46	127	366	414	40	18	1.8	108	21
12	5.8	60	248	44	127	234	336	54	24	.5	179	15
13	4.3	39	605	36	382	206	248	47	35	.4	83	11
14	5.5	32	366	56	414	665	179	52	64	.4	83	7.9
15	.8	549	234	50	276	414	140	50	140	8.3	192	6.5
16	.6	794	153	67	206	248	120	40	127	16	108	3.4
17	2.1	321	120	50	146	192	134	33	140	11	65	1.8
18	2.1	248	101	47	166	146	108	28	321	41	71	1.8
19	1.4	206	77	50	214	179	120	25	248	27	64	4.6
20	.6	146	58	56	262	89	101	33	179	13	46	8.3
21	1.1	114	1,060	83	206	95	179	63	134	7.5	40	4.3
22	2.6	89	2,020	276	220	89	291	42	89	8.6	28	3.4
23	6.5	77	549	366	276	65	220	39	101	7.5	19	3.4
24	9.0	67	1,060	276	586	50	160	50	61	6.1	14	2.6
25	9.7	71	3,190	192	321	75	120	83	31	3.7	11	1.6
26	6.5	192	2,110	166	220	101	95	63	29	2.1	8.3	5.2
27	6.8	234	496	140	179	83	72	42	21	.6	8.3	1.1
28	7.2	192	1,510	127	120	73	52	77	15	.4	7.2	3.1
29	5.8	146	1,210	306	-------	55	40	220	12	.6	13	3.7
30	5.5	248	446	351	-------	56	51	192	9.0	1.4	9.7	4.9
31	32	-------	291	496	-------	114	-------	140	-------	7.5	7.9	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	32	0.6	4.82	0.104	0.12
November	794	9.7	145	3.12	3.48
December	3,190	58	565	12.2	14.07
January	496	36	135	2.91	3.36
February	586	120	240	5.17	5.38
March	840	50	215	4.63	5.34
April	414	40	193	4.16	4.64
May	234	25	75.8	1.63	1.88
June	321	9.0	81.6	1.76	1.96
July	41	.4	6.76	.146	.17
August	192	7.2	56.5	1.22	1.41
September	26	1.1	6.62	.143	.16
The year	3,190	.4	143	3.08	41.97

[2] Formerly published as "Daddy Creek near Crab Orchard, Tenn."

PINEY RIVER AT SPRING CITY, TENN.

LOCATION.—Staff gage at highway bridge on Dayton-Harriman pike 175 feet below Southern Railway bridge and 1 mile north of Spring City, Rhea County. Zero of gage is 755.76 feet above mean sea level.
DRAINAGE AREA.—96.7 square miles.
RECORDS AVAILABLE.—June to September, 1927.
EXTREMES.—Maximum discharge during period of record, 386 second-feet August 11 (gage height, 2.18 feet); minimum, 0.1 second-foot September 30 (gage height, 0.64 foot).
REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1		9.2	53	4.7	16		17	74	0.9
2		8.0	27	5.1	17		12	42	.7
3		6.8	17	6.0	18		14	39	.4
4		5.5	28	6.0	19		14	30	2.9
5		4.3	55	4.3	20		11	24	2.9
6		3.7	33	3.2	21		7.2	20	2.0
7		3.4	22	2.5	22		9.2	16	1.1
8		2.9	17	2.0	23	48	14	13	.7
9		2.5	30	2.5	24	39	7.6	10	.4
10		2.5	28	4.7	25	32	8.0	8.6	.3
11		2.5	125	5.1	26	26	5.5	7.2	.2
12		2.5	162	2.5	27	20	3.7	6.4	.2
13		2.5	62	2.0	28	16	2.9	10	.2
14		16	51	1.4	29	13	2.5	7.6	.2
15		9.2	115	1.1	30	12	2.5	6.0	.1
					31		18	5.1	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June 23-30	48	12	25.8	0.267	0.08
July	18	2.5	7.44	.077	.09
August	162	5.1	36.9	.382	.44
September	6.0	.1	2.21	.023	.03

RICHLAND CREEK AT DAYTON, TENN.

LOCATION.—Staff gage at highway bridge on Dayton-Chattanooga pike in Dayton, Rhea County, 1,000 feet below Southern Railway bridge. Zero of gage is 684.73 feet above mean sea level.

DRAINAGE AREA.—71.7 square miles.

RECORDS AVAILABLE.—June to September, 1927.

EXTREMES.—Maximum discharge during period of record, 133 second-feet August 15 (gage height, 2.54 feet); minimum, 0.1 second-foot September 30 (gage height, 1.37 feet).

REMARKS.—Records good.

Daily and monthly discharge in second-feet, 1927

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1		8.1	11	0.3	16		0.9	27	0.6
2		6.4	5.2	.2	17		2.2	16	.4
3		6.0	2.7	.9	19		2.0	11	.4
4		5.6	2.7	45	19		1.5	7.5	3.0
5		3.6	2.2	16	20		2.0	6.0	.5
6		3.6	1.3	8.6	21		1.3	4.4	.3
7		2.7	1.1	4.8	22	67	1.5	4.0	.2
8		2.4	.9	3.3	23	57	1.7	2.4	.2
9		2.2	1.3	4.8	24	43	2.4	2.0	.1
10		1.7	.9	13	25	28	.9	1.3	.1
11		2.7	1.7	7.0	26	25	.6	.9	.1
12		2.7	4.8	3.6	27	19	.5	.6	.1
13		2.7	7.5	2.4	28	17	.3	.6	.1
14		2.2	4.8	1.3	29	12	.2	.4	.1
15		1.5	96	.9	30	9.8	.5	.4	.1
					31		4.8	.4	

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June 22-30	67	9.8	30.9	0.043	0.01
July	8.1	.2	2.50	.0035	.004
August	96	.4	7.39	.010	.01
September	45	.1	3.95	.0055	.006

HIWASSEE RIVER AT MURPHY, N. C.

LOCATION.—Water-stage recorder 500 feet downstream from bridge in Murphy, Cherokee County, and half a mile upstream from Valley River. Chain gage at highway bridge 500 feet upstream used to November 8, 1926.

DRAINAGE AREA.—410 square miles.

RECORDS AVAILABLE.—June, 1896, to June, 1917; October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,300 second-feet December 28 (gage height, 8.45 feet); minimum, 184 second-feet several times in October (gage height, 3.15 feet).

1896–1917, 1918–1927: Maximum discharge, 23,100 second-feet March 19, 1899 (gage height, 18.4 feet; old gage); minimum discharge (caused by regulation) not determined; minimum gage height, 2.10 feet December 6, 1924.

REMARKS.—Records good after November 8; fair for period of chair gage use. Considerable diurnal fluctuation caused by operation of Andrews municipal dam since 1924.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	194	291	612	1,760	896	1,200	1,460	939	960	546	593	546
2	282	274	584	1,420	896	1,220	1,220	812	741	574	474	457
3	261	261	501	1,230	833	1,010	1,080	751	917	537	518	501
4	240	291	501	1,170	812	1,090	1,020	700	792	501	1,040	457
5	326	326	501	1,060	771	1,100	1,110	730	661	546	661	474
6	282	282	466	896	741	1,250	1,250	896	584	501	501	416
7	220	220	431	928	960	1,520	1,000	730	641	466	474	960
8	194	248	440	854	875	4,800	993	720	584	527	457	457
9	194	1,380	928	833	875	4,410	1,000	671	622	556	501	448
10	194	812	949	792	822	3,180	1,110	720	681	1,690	431	408
11	291	501	875	751	812	2,300	1,150	661	612	1,690	812	393
12	304	408	792	690	822	1,890	1,040	584	875	971	1,160	385
13	448	401	1,010	690	2,160	1,620	1,000	603	681	700	751	324
14	317	337	3,100	939	2,960	1,960	993	641	1,300	690	720	331
15	282	917	2,240	761	1,890	1,690	917	593	1,560	671	1,060	324
16	282	3,330	1,690	584	1,470	1,520	886	612	1,620	565	593	331
17	252	1,330	1,270	741	1,230	1,410	886	556	1,350	537	593	289
18	248	1,100	1,060	671	1,160	1,290	833	556	1,090	518	501	294
19	220	1,020	960	671	1,090	1,180	822	584	1,620	1,350	483	343
20	209	812	792	651	1,090	1,180	841	574	1,170	632	501	343
21	201	710	833	622	982	1,140	1,200	584	993	681	474	312
22	209	661	1,460	622	939	1,250	1,690	466	1,150	928	423	294
23	209	612	1,170	612	2,300	1,140	1,200	584	1,100	1,170	401	284
24	209	603	1,690	603	2,590	1,050	971	584	1,020	611	385	289
25	349	546	5,210	593	1,960	1,040	982	886	844	565	393	284
26	282	556	5,550	651	1,620	1,050	886	681	751	546	370	259
27	304	690	2,810	886	1,360	896	906	546	690	457	483	2.9
28	282	864	6,560	681	1,180	930	822	641	612	466	537	289
29	282	710	5,290	1,110	------	875	812	886	612	416	355	281
30	291	593	2,960	1,000	------	939	917	971	556	416	378	279
31	291	------	2,160	982	------	1,440	------	993	------	546	1,270	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	448	194	264	0.644	0.74
November	3,330	220	703	1.71	1.91
December	6,560	431	1,790	4.36	5.03
January	1,760	584	853	2.08	2.40
February	2,960	741	1,290	3.15	3.28
March	4,800	875	1,570	3.83	4.42
April	1,690	812	1,030	2.51	2.80
May	993	466	692	1.69	1.95
June	1,690	553	933	2.28	2.54
July	1,690	416	697	1.70	1.96
August	1,270	355	590	1.44	1.65
September	960	259	377	.920	1.03
The year	6,560	194	897	2.19	29.72

HIWASSEE RIVER NEAR RELIANCE, TENN.

LOCATION.—Water-stage recorder just above notch between rock bluffs half a mile below mouth of Spring Creek and 3 miles below highway bridge at Reliance, Polk County. Zero of gage is 718.66 feet above mean sea level.

DRAINAGE AREA.—1,220 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927. Records have been obtained at Reliance, 3 miles above, from August, 1900, to December, 1913, and February, 1919, to September, 1926.

EXTREMES.—Maximum discharge during year, about 22,200 second-feet December 25 (gage height, about 15.0 feet, from high-water marks); minimum mean daily discharge, 590 second-feet October 10 (gage height, 2.88 feet).

REMARKS.—Records good. Discharge December 22 to January 3, June 9, and 10, based on chain-gage readings at Reliance. Possibly slight diurnal fluctuation caused by operation of power plants near the headwaters.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	628	666	1,880	5,080	3,040	3,660	4,780	2,860	2,200	1,400	2,090	1,140
2	710	830	1,550	4,340	2,800	3,790	4,060	2,470	2,200	1,600	1,600	1,310
3	798	722	1,350	3,660	2,740	3,530	3,660	2,250	1,980	1,640	1,350	1,310
4	677	722	1,310	3,400	2,250	3,530	3,280	2,200	2,300	1,460	1,690	1,510
5	677	677	1,270	3,160	2,250	3,530	3,160	2,140	2,040	1,380	2,250	1,240
6	752	660	1,240	2,920	2,250	3,660	3,920	2,690	1,780	1,380	1,640	1,310
7	862	660	1,240	2,800	2,690	4,200	3,530	2,690	1,740	1,310	1,350	1,460
8	644	677	1,550	2,640	2,920	11,900	3,280	2,200	1,690	1,380	1,380	1,460
9	595	928	3,400	2,580	2,800	13,600	3,160	2,140	1,550	1,550	1,660	1,160
10	590	2,920	3,280	2,520	2,980	10,600	3,400	2,040	1,830	3,160	1,420	1,160
11	638	1,550	2,740	2,420	2,980	7,310	4,060	1,980	1,690	3,530	2,040	1,100
12	800	1,200	2,690	2,250	2,860	5,890	3,660	1,930	2,250	3,400	3,920	1,060
13	895	1,060	7,380	2,200	4,340	5,080	3,400	1,830	2,520	2,140	2,580	992
14	1,160	992	8,160	2,420	8,670	5,720	3,400	1,930	2,470	2,090	2,140	895
15	1,020	1,340	5,080	2,640	5,890	5,560	3,160	1,880	4,630	2,040	2,300	862
16	830	6,430	4,060	2,090	4,480	4,780	2,800	1,780	3,920	1,690	2,360	862
17	740	3,460	3,280	2,040	3,790	4,480	2,690	1,740	3,160	1,830	1,690	830
18	746	2,690	2,920	2,140	3,530	4,200	2,640	1,690	3,280	1,600	1,600	800
19	682	2,740	2,640	2,140	3,530	3,920	2,580	1,640	4,060	1,510	1,420	862
20	666	2,250	2,360	2,200	3,280	3,660	2,580	1,640	3,160	2,090	1,380	1,060
21	628	1,930	2,360	2,140	3,280	3,660	2,920	1,690	2,640	1,640	1,350	992
22	611	1,740	3,160	2,090	3,040	3,660	5,560	1,640	2,740	1,640	1,270	862
23	622	1,600	3,400	2,090	5,580	3,400	4,200	1,510	3,040	2,360	1,200	800
24	672	1,510	4,650	1,980	9,490	3,400	3,660	1,640	2,800	2,090	1,100	770
25	710	1,510	15,400	1,980	5,720	3,400	3,160	1,690	2,520	1,550	1,100	770
26	770	1,880	17,000	2,090	5,080	3,160	3,040	2,090	2,206	1,350	1,060	770
27	770	3,280	8,980	2,250	4,200	3,160	2,920	1,740	1,980	1,350	1,060	722
28	666	2,580	12,200	2,420	3,790	2,920	2,800	1,550	1,830	1,200	1,420	722
29	704	2,140	17,200	2,690	------	2,920	2,690	1,780	1,600	1,160	1,350	764
30	666	1,980	7,880	3,160	------	2,920	2,740	2,090	1,550	1,130	1,060	758
31	694	------	6,290	3,280	------	3,280	------	2,090	------	1,310	1,310	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,160	590	730	0.598	0.69
November	6,430	660	1,780	1.46	1.63
December	17,200	1,240	5,090	4.17	4.81
January	5,080	1,980	2,640	2.16	2.49
February	9,490	2,250	3,940	3.23	3.36
March	13,600	2,920	4,790	3.93	4.53
April	5,560	2,580	3,360	2.75	3.07
May	2,860	1,510	1,980	1.62	1.87
June	4,630	1,550	2,440	2.00	2.23
July	3,530	1,130	1,770	1.45	1.67
August	3,920	1,060	1,650	1.35	1.56
September	1,640	722	1,030	.844	.94
The year	17,200	590	2,590	2.12	28.85

HIWASSEE RIVER AT CHARLESTON, TENN.

LOCATION.—Water-stage recorder 250 feet above Southern Railway bridge at Charleston, Bradley County. Zero of gage is 665.53 feet above mean sea level.

DRAINAGE AREA.—2,300 square miles.

RECORDS AVAILABLE.—January, 1899, to December, 1902, and October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 32,700 second-feet December 29 (gage height, 24.4 feet); minimum, 755 second-feet October 10 (gage height, 1.12 feet).

1920–1927: Maximum discharge, 49,500 second-feet January 22, 1922 (gage height, 28.2 feet, present datum); minimum, 260 second-feet September 14, 1925 (gage height, 0.22 foot, present datum).

United States Weather Bureau reports stage of 34.0 feet March 31, 1886.

REMARKS.—Records good. Tennessee Electric Power Co.'s hydroelectric plants on Ocoee River cause considerable regulation of the flow during low water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,430	870	3,970	13,400	5,800	6,670	8,130	3,970	2,840	3,970	2,600	3,240
2	1,180	1,180	3,590	8,710	5,360	7,100	7,830	3,970	4,370	3,020	2,700	2,400
3	930	1,180	3,470	8,130	5,220	6,670	5,940	4,510	3,840	2,700	2,350	2,160
4	960	1,060	2,910	6,820	4,930	6,380	5,510	4,370	4,240	1,990	2,400	1,860
5	1,180	1,320	1,900	5,940	4,240	5,940	5,360	4,100	2,700	1,990	4,100	1,510
6	1,360	1,400	2,210	5,510	3,020	6,380	6,820	5,220	2,500	2,400	3,720	1,660
7	1,430	960	3,120	4,930	3,840	7,540	6,240	4,650	2,910	2,160	1,990	2,080
8	1,150	930	3,350	5,080	5,080	16,700	5,510	2,910	2,800	2,260	1,780	2,600
9	1,090	2,030	5,510	5,220	5,510	24,000	4,930	3,120	3,020	2,400	2,910	2,300
10	870	3,720	6,670	3,590	5,940	23,000	6,380	3,840	2,700	2,700	3,240	1,990
11	1,120	3,840	5,360	3,970	5,800	16,400	11,300	3,970	2,700	6,240	2,700	1,620
12	990	2,600	3,840	3,840	5,510	12,400	8,420	3,840	4,650	5,800	5,360	1,430
13	1,360	1,990	9,590	4,240	5,940	10,300	6,380	3,840	5,360	4,370	4,650	1,940
14	1,290	1,470	15,400	4,370	12,500	11,500	5,940	4,370	4,240	3,720	2,700	1,660
15	1,510	1,940	11,900	4,100	11,300	12,200	5,510	3,020	8,420	3,720	3,020	1,430
16	1,150	7,250	8,860	2,800	8,560	9,590	5,080	2,800	7,980	3,020	4,100	1,990
17	990	7,250	7,100	3,120	7,250	8,420	4,510	3,590	6,520	2,600	3,240	1,860
18	930	4,790	5,510	4,510	6,380	7,540	4,650	3,720	5,510	2,700	3,020	1,220
19	960	4,650	3,590	4,100	6,520	6,820	5,080	3,590	5,660	2,910	2,500	1,430
20	960	3,970	3,590	4,240	5,660	6,240	4,790	3,120	4,790	3,590	2,300	1,400
21	960	2,450	4,790	4,370	5,660	6,960	5,220	2,800	4,510	3,120	1,780	1,470
22	990	2,600	5,220	4,100	5,940	6,090	9,880	2,120	5,080	2,910	1,820	1,660
23	960	3,350	6,670	3,240	8,710	6,090	9,440	2,260	5,080	3,240	2,350	1,400
24	900	3,240	7,250	3,120	16,900	5,660	5,660	3,120	4,370	3,120	2,260	1,180
25	990	2,400	17,800	4,100	14,100	5,940	5,800	3,240	4,100	2,210	2,300	990
26	1,090	2,910	29,000	4,370	13,100	5,220	5,360	3,720	2,800	2,450	2,300	1,180
27	1,150	5,510	27,000	4,510	10,500	4,100	5,080	3,350	3,020	2,080	2,160	1,990
28	990	3,720	24,300	4,650	7,980	3,970	5,220	2,800	4,100	2,260	1,700	2,120
29	1,020	3,350	31,300	4,510	-------	4,790	4,930	2,300	3,240	2,450	2,210	2,210
30	1,020	4,100	28,000	3,840	-------	4,790	4,930	2,700	3,120	2,800	2,400	2,080
31	930	-------	19,500	5,220	-------	5,510	-------	3,240	-------	2,080	2,210	-------

Month	Maximum	Minimum	Mean	Per square mile	Run off in inches
October	1,510	870	1,090	0.474	0.55
November	7,250	870	2,930	1.27	1.42
December	31,300	1,900	10,100	4.39	5.06
January	13,400	2,800	4,920	2.14	2.47
February	16,900	3,020	7,400	3.22	3.35
March	24,000	3,970	8,740	3.80	4.38
April	11,300	4,510	6,190	2.69	3.00
May	5,220	2,120	3,490	1.52	1.75
June	8,420	2,500	4,270	1.86	2.08
July	6,240	1,990	3,000	1.30	1.50
August	5,360	1,700	2,740	1.19	1.37
September	3,240	990	1,800	.783	.87
The year	31,300	870	4,710	2.05	27.80

VALLEY RIVER AT TOMOTLA, N. C.

LOCATION.—Chain gage on highway bridge 600 feet from post office at Tomotla, Cherokee County, half a mile upstream from mouth of Rodgers Creek, and 5 miles northeast of Murphy.

DRAINAGE AREA.—106 square miles.

RECORDS AVAILABLE.—June, 1904, to December, 1909; January, 1914, to April, 1917; October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,900 second-feet December 25 (gage height, 8.50 feet); minimum, 49 second-feet several times in October (gage height, 0.84 foot).

1904–1909, 1914–1917, 1918–1927: Maximum discharge, estimated, 7,780 second-feet November 19, 1906 (gage height, 17.3 feet); minimum, 12 second-feet several times in August and September, 1925 (gage height, 0.52 foot).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	73	196	556	336	424	394	242	242	154	230	134
2	62	63	185	456	350	394	336	218	254	154	164	116
3	53	62	164	394	336	364	308	185	218	134	174	123
4	50	60	154	364	294	350	294	174	196	134	254	134
5	74	59	144	322	267	350	394	174	174	125	164	123
6	76	57	134	294	280	456	336	218	174	125	154	125
7	65	56	125	267	350	556	294	185	164	123	154	125
8	59	54	218	254	308	2,100	294	174	174	134	174	134
9	54	475	336	242	308	1,680	336	174	174	134	230	134
10	52	185	322	230	308	1,060	350	174	164	154	185	123
11	73	134	280	218	280	840	336	174	154	350	660	121
12	82	111	364	196	336	660	308	174	456	207	456	118
13	86	102	1,430	196	984	590	280	174	254	185	424	116
14	84	92	912	308	984	804	280	164	267	174	394	109
15	74	590	660	207	660	590	267	154	590	164	522	104
16	71	522	456	207	522	522	267	154	456	154	294	94
17	76	322	379	207	424	456	254	154	424	185	242	91
18	71	322	322	207	394	424	254	144	696	185	230	84
19	74	242	174	207	379	394	242	144	590	154	207	100
20	73	196	267	207	364	364	230	144	394	144	185	89
21	70	174	308	207	336	350	267	144	308	164	164	86
22	66	164	804	207	336	336	350	144	336	185	154	84
23	63	144	522	207	1,020	294	280	144	424	185	144	81
24	63	134	660	207	876	308	254	144	322	164	144	78
25	60	154	2,560	196	696	322	254	154	254	154	134	76
26	60	488	2,260	218	590	294	242	154	242	134	125	76
27	62	424	984	218	488	280	242	154	207	121	164	73
28	60	322	1,670	207	394	267	230	144	185	109	154	71
29	59	267	1,620	379	------	254	230	230	174	100	134	70
30	57	218	948	336	------	254	242	267	164	98	134	66
31	105	------	732	336	------	424	------	267	------	254	174	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	105	50	67.8	0.640	0.74
November	590	54	209	1.97	2.20
December	2,560	125	655	6.18	7.12
January	556	196	266	2.51	2.89
February	1,020	267	471	4.44	4.62
March	2,100	254	541	5.10	5.88
April	394	230	288	2.72	3.04
May	267	144	176	1.66	1.91
June	696	154	294	2.77	3.09
July	350	98	159	1.50	1.73
August	660	125	230	2.17	2.50
September	134	66	102	.962	1.07
The year	2,560	50	287	2.71	36.79

NOTTELY RIVER NEAR RANGER, N. C.

LOCATION.—Chain gage on highway bridge half a mile downstream from Ranger, Cherokee County, and 7½ miles southwest of Murphy.

DRAINAGE AREA.—272 square miles.

RECORDS AVAILABLE.—February, 1901 to December, 1905; January, 1914, to April, 1917; October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, estimated, 3,860 second-feet December 28 (gage height, 12.20 feet); minimum, 101 second-feet October 4 (gage height, 2.30 feet).

1901–1905, 1914–1917, 1918–1927: Maximum discharge, not determined; maximum gage height, 21.0 feet February 28, 1902; minimum discharge, 41 second-feet September 6, 7, 23, and 24, 1925 (gage height, 1.80 feet).

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	131	172	258	800	394	580	766	552	444	258	370	280
2	172	156	248	670	370	610	670	444	370	248	324	218
3	124	147	238	670	370	580	640	444	444	258	269	302
4	101	139	238	552	346	552	552	418	470	248	444	302
5	147	139	238	496	346	496	580	394	394	248	470	280
6	147	139	228	444	370	552	610	524	346	238	280	258
7	139	139	218	418	444	610	580	470	324	238	238	238
8	131	131	470	394	394	1,600	552	444	302	248	238	258
9	116	444	444	370	418	1,490	524	444	370	280	238	238
10	108	496	346	346	394	1,260	670	444	324	302	280	228
11	172	302	324	346	370	940	734	394	302	418	870	248
12	172	258	552	346	394	835	702	394	302	394	670	248
13	302	238	1,220	346	1,630	800	702	394	302	610	324	208
14	248	218	1,080	394	1,300	940	610	394	610	394	394	199
15	190	373	734	370	870	800	552	394	640	346	324	190
16	190	1,260	552	370	702	734	552	370	470	324	269	190
17	181	610	470	346	580	670	524	346	394	302	258	181
18	147	580	444	346	394	640	496	346	470	302	248	181
19	139	496	394	346	496	552	470	346	394	324	248	394
20	131	418	346	346	444	552	444	302	394	324	238	302
21	131	370	394	346	580	552	524	324	370	302	258	181
22	131	302	470	324	670	552	1,340	346	394	280	238	181
23	124	280	444	324	1,580	552	734	346	496	734	208	172
24	164	269	1,010	302	1,220	524	610	346	640	394	199	164
25	190	302	2,180	302	870	524	552	394	444	324	199	147
26	172	444	2,040	324	734	496	524	394	394	302	199	147
27	164	444	1,040	418	610	496	496	346	370	258	199	139
28	164	346	2,950	346	580	470	496	394	324	228	190	164
29	156	302	2,260	444	------	444	444	444	280	218	208	172
30	139	280	1,180	418	------	444	418	370	269	208	199	164
31	208	------	940	394	------	496	------	346	------	208	346	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	302	101	159	0.585	0.67
November	1,260	131	340	1.25	1.40
December	2,950	218	773	2.84	3.27
January	800	302	408	1.50	1.73
February	1,630	346	638	2.35	2.45
March	1,600	444	688	2.53	2.92
April	1,340	418	602	2.21	2.47
May	552	302	397	1.46	1.68
June	640	269	402	1.48	1.65
July	734	208	315	1.16	1.34
August	870	190	304	1.12	1.29
September	394	139	219	.805	.90
The year	2,950	101	436	1.60	21.77

TOCCOA RIVER NEAR DIAL, GA.

LOCATION.—Water-stage recorder half a mile above Shallow Ford, 1 mile above Stanley Creek, and 4 miles northwest of Dial, Fannin County. Zero of gage is 1,781.13 feet above mean sea level.

DRAINAGE AREA.—175 square miles.

RECORDS AVAILABLE.—January, 1913, to September, 1927; May, 1907, to June, 1908, at Butts Bridge 2 miles above Dial.

EXTREMES.—Maximum discharge during year, 3,400 second-feet December 28 (gage height, 5.4 feet); minimum mean daily discharge, 167 second-feet October 8 and 9 (gage height, 0.84 foot).

1913–1927: Maximum discharge, 9,200 second-feet July 9, 1916 (gage height, 10.0 feet); minimum, 60 second-feet September 6, 1925 (gage height, 0.40 foot).

REMARKS.—Records good. Discharge July 16 to August 15 and September 23 based on staff-gage readings. Slight diurnal fluctuations due to operation of small mills upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	181	217	294	898	430	570	752	560	398	287	331	296
2	186	205	284	800	414	565	620	520	380	275	320	265
3	181	200	282	740	406	530	560	511	372	253	331	337
4	181	181	275	680	394	525	530	506	362	255	320	289
5	210	181	275	636	366	520	586	511	349	279	277	287
6	176	169	272	620	366	525	586	680	337	277	258	267
7	169	169	263	570	386	608	540	545	372	275	282	263
8	167	169	358	540	390	962	520	516	340	282	267	263
9	167	674	452	535	394	1,240	540	498	343	282	282	253
10	169	388	362	520	390	1,060	995	488	337	289	275	289
11	176	289	331	498	376	846	865	480	325	362	291	231
12	181	248	355	480	430	740	740	457	323	331	282	224
13	315	229	1,100	480	1,140	734	752	452	315	475	253	219
14	251	222	930	598	1,030	865	686	439	346	444	243	205
15	215	1,060	674	493	704	734	625	414	410	320	263	210
16	205	1,100	535	457	614	692	576	406	414	282	253	207
17	195	511	475	457	570	680	581	402	358	277	258	198
18	186	630	426	444	540	636	581	394	410	301	570	215
19	188	452	402	439	520	614	576	390	386	289	311	315
20	186	398	398	457	511	598	545	386	340	282	275	210
21	181	362	414	434	475	603	586	383	325	277	263	191
22	176	334	581	414	466	614	820	376	346	277	255	176
23	174	320	480	410	995	570	608	369	406	296	253	193
24	200	315	652	398	898	576	570	369	414	277	246	210
25	243	311	1,630	390	740	560	540	386	334	277	248	205
26	212	340	2,060	406	642	530	520	386	320	277	246	215
27	210	349	1,170	457	598	520	516	358	315	272	296	222
28	200	306	2,360	410	565	516	511	362	320	267	279	224
29	191	303	2,020	484	-------	498	488	630	301	265	263	229
30	186	308	1,390	466	-------	516	545	439	294	253	258	193
31	253	-------	1,140	462	-------	788	-------	390	-------	340	318	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	315	167	197	1.13	1.30
November	1,100	169	364	2.08	2.32
December	2,360	263	730	4.17	4.81
January	898	390	518	2.96	3.41
February	1,140	366	562	3.21	3.34
March	1,240	498	662	3.78	4.36
April	995	488	615	3.51	3.92
May	680	358	452	2.58	2.97
June	414	294	353	2.02	2.25
July	475	253	297	1.70	1.96
August	570	243	286	1.63	1.88
September	337	176	235	1.34	1.50
The year	2,360	167	439	2.51	34.02

TOCCOA RIVER NEAR MORGANTON, GA.

LOCATION.—Water-stage recorder 1⅛ miles below highway bridge on Blueridge-Morganton Road, 1¾ miles below mouth of Star Creek, and 2 miles west of Morganton, Fannin County. Zero of gage is 1,539.34 feet above mean sea level.

DRAINAGE AREA.—231 square miles.

RECORDS AVAILABLE.—November, 1898, to March, 1903; April, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,570 second-feet December 28 (gage height, 8.4 feet); minimum, 174 second-feet October 10 (gage height, 1.52 feet).

1913–1927: Maximum discharge, about 13,900 second-feet July 9, 1916 (gage height, 13.0 feet); minimum, 73 second-feet September 10, 24, and 25, 1925.

REMARKS.—Records good. Slight diurnal fluctuations caused by operation of small mills upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	190	240	337	1,060	516	700	978	750	508	334	424	297
2	188	215	330	925	508	725	800	655	460	327	309	246
3	198	215	327	875	492	655	725	632	556	321	315	351
4	186	208	318	825	488	655	700	632	500	315	390	282
5	192	202	315	750	472	678	775	632	440	344	351	258
6	222	198	315	725	480	700	800	925	424	318	291	246
7	188	195	303	678	520	725	700	700	488	312	279	240
8	180	192	483	655	504	1,280	655	655	444	321	270	230
9	178	843	639	632	534	1,560	700	632	436	321	288	232
10	176	496	480	610	496	1,280	1,170	610	436	324	270	246
11	186	324	416	588	480	1,000	1,220	588	416	560	393	240
12	198	282	436	565	542	900	950	560	408	408	324	232
13	410	261	1,250	556	1,300	850	1,030	552	400	610	270	225
14	309	249	1,140	700	1,340	1,060	875	565	464	632	252	222
15	222	1,320	825	588	950	925	800	538	542	448	240	218
16	205	1,400	678	547	800	875	750	520	542	372	240	215
17	195	655	565	565	725	825	725	520	468	436	240	205
18	190	750	520	524	700	800	700	508	588	354	750	230
19	190	610	480	520	700	775	700	500	520	365	324	440
20	190	508	460	516	655	750	678	508	440	324	285	270
21	188	452	468	488	610	750	750	512	412	324	255	228
22	184	416	678	476	588	775	1,140	480	456	351	246	215
23	184	396	547	464	1,240	700	825	480	632	464	240	208
24	208	379	800	460	1,140	700	750	480	565	337	232	205
25	276	354	1,900	460	925	700	725	512	448	300	230	202
26	222	416	2,480	476	850	655	725	488	404	309	225	198
27	225	448	1,320	529	775	655	700	444	390	303	303	195
28	215	351	3,100	488	700	610	678	460	365	288	288	195
29	208	337	2,370	565	-------	610	655	775	351	279	246	195
30	192	362	1,500	534	-------	632	750	588	344	297	235	190
31	232	-------	1,200	552	-------	925	-------	504	-------	400	288	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	410	176	211	0.913	1.05
November	1,400	192	442	1.91	2.13
December	3,100	303	870	3.77	4.35
January	1,060	460	610	2.64	3.04
February	1,340	472	715	3.10	3.23
March	1,560	610	820	3.55	4.09
April	1,220	655	804	3.48	3.88
May	925	444	578	2.50	2.88
June	632	344	462	2.00	2.23
July	632	279	368	1.59	1.83
August	750	225	300	1.30	1.50
September	440	190	239	1.03	1.15
The year	3,100	176	534	2.31	31.36

OCOEE RIVER AT McHARGE, TENN.

LOCATION.—Staff gage at highway bridge half a mile downstream from McHarge railroad siding, Polk County, half a mile below mouth of Potato Creek, and 2½ miles downstream from Copperhill. Zero of gage is 1,430.46 feet above mean sea level.

DRAINAGE AREA.—451 square miles.

RECORDS AVAILABLE.—May, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,490 second-feet December 28 (gage height, 7.1 feet); minimum, 275 second-feet October 10 (gage height, 0.50 foot).

1917–1927: Maximum discharge, 13,100 second-feet January 21, 1922 (gage height, 11.4 feet); minimum, 118 second-feet September 22 and 23, 1925 (gage height, 0.07 foot).

REMARKS.—Records fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	354	482	720	1,840	832	1,280	1,740	1,280	910	615	758	580
2	330	384	650	1,550	832	1,370	1,460	1,110	832	720	580	580
3	390	372	615	1,460	795	1,190	1,280	1,030	1,460	615	548	650
4	378	360	615	1,370	795	1,190	1,190	1,030	990	580	870	615
5	378	342	580	1,280	758	1,190	1,370	1,030	832	758	795	548
6	420	330	580	1,110	758	1,280	1,460	1,640	832	580	615	758
7	336	319	548	1,030	1,030	1,280	1,280	1,280	910	548	548	515
8	319	330	720	990	870	2,900	1,190	1,190	795	615	548	515
9	308	795	1,190	990	910	3,500	1,280	1,110	795	580	615	795
10	286	990	950	950	870	2,680	2,240	1,110	832	720	580	685
11	390	650	832	910	795	3,140	2,240	1,030	758	1,030	1,190	548
12	366	548	795	832	910	1,840	1,740	990	795	720	870	515
13	870	515	2,240	870	1,940	1,740	1,940	990	720	910	685	482
14	795	482	2,140	1,110	2,350	2,240	1,640	1,030	1,030	1,190	615	482
15	515	990	1,550	910	1,640	1,640	1,460	950	1,030	795	615	450
16	450	2,350	1,280	795	1,370	1,550	1,460	950	1,030	685	580	482
17	390	1,190	1,030	870	1,190	1,460	1,370	910	870	832	580	420
18	384	1,190	990	832	1,190	1,370	1,280	870	1,370	758	990	420
19	378	1,110	870	832	1,190	1,370	1,280	870	1,030	758	720	950
20	366	910	832	832	1,110	1,280	1,190	870	870	685	615	580
21	354	795	832	795	1,030	1,280	1,280	870	832	720	548	482
22	342	758	1,370	795	990	1,370	2,140	832	950	650	548	482
23	319	685	1,030	758	2,680	1,190	1,460	870	1,030	950	515	420
24	378	650	1,740	758	2,040	1,280	1,370	870	1,110	650	482	420
25	450	650	4,500	758	1,740	1,190	1,280	1,030	870	580	482	420
26	390	1,110	4,500	795	1,550	1,190	1,280	870	795	548	482	420
27	378	1,030	2,350	832	1,370	1,110	1,190	795	758	515	615	420
28	366	795	5,280	758	1,190	1,030	1,190	870	720	515	580	420
29	354	758	4,110	950	------	1,030	1,110	1,280	685	482	515	390
30	336	795	2,570	910	------	1,110	1,190	1,030	650	482	482	390
31	515	------	2,140	950	------	1,940	------	870	------	910	548	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	870	286	406	0.900	1.04
November	2,350	319	756	1.68	1.87
December	5,280	548	1,620	3.59	4.14
January	1,840	758	981	2.18	2.51
February	2,680	758	1,240	2.75	2.86
March	3,500	1,030	1,590	3.53	4.07
April	2,240	1,110	1,450	3.22	3.59
May	1,640	832	1,010	2.24	2.58
June	1,460	650	903	2.00	2.23
July	1,190	482	700	1.55	1.79
August	1,190	482	636	1.41	1.63
September	795	390	528	1.17	1.30
The year	5,280	286	984	2.18	29.61

OCOEE RIVER AT EMF, TENN.

LOCATION.—Water-stage recorder 700 feet below Tennessee Electric Power Co.'s plant No. 2, known as "Caney Creek plant," half a mile upstream from Emf, Polk County, and 1½ miles downstream from mouth of Goforth Creek. Zero of gage is 830.00 feet above mean sea level.

DRAINAGE AREA.—530 square miles.

RECORDS AVAILABLE.—January, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,500 second-feet December 28 (gage height, 8.4 feet); minimum, 50 second-feet, regulated flow, September 17 and 21 (gage height, 2.52 feet).

1913–1927: Maximum discharge, 21,400 second-feet July 10, 1916 (gage height, 13.7 feet); minimum, that of September 17 and 21, 1927.

REMARKS.—Records good except those for extremely high and low stages, which are fair. Discharge October 31 to November 6, November 18–20, April 29, and 30, based on two daily staff-gage readings. Diurnal fluctuation caused by operation of plant No. 2.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	353	503	673	1,970	1,070	1,460	2,030	1,460	970	689	950	555
2	364	392	625	1,730	1,010	1,510	1,620	1,270	920	723	673	529
3	408	386	583	1,620	970	1,340	1,460	1,220	1,160	705	618	583
4	353	375	536	1,510	930	1,340	1,390	1,190	1,220	665	1,120	641
5	358	364	569	1,390	900	1,370	1,620	1,460	880	705	1,050	542
6	408	353	562	1,290	890	1,400	1,790	1,970	871	657	590	641
7	370	348	542	1,230	1,210	1,910	1,510	1,460	960	641	555	548
8	331	348	824	1,120	1,140	3,950	1,390	1,310	880	732	604	510
9	331	795	1,460	1,230	1,110	3,950	1,460	1,260	842	705	657	529
10	320	1,150	1,080	1,190	1,080	2,810	2,210	1,170	910	940	618	536
11	408	583	842	1,130	1,030	2,210	2,670	1,140	890	1,210	1,090	466
12	386	484	880	1,050	1,070	1,970	1,970	1,070	1,360	950	1,070	442
13	597	460	2,090	1,040	2,030	1,790	2,030	960	842	980	681	424
14	795	436	2,210	1,220	2,740	2,150	2,730	1,140	1,300	1,170	576	41
15	496	1,060	1,620	1,090	1,850	1,910	1,620	1,050	1,460	890	673	408
16	419	2,400	1,400	890	1,510	1,680	1,510	1,000	1,150	777	542	397
17	402	1,230	1,150	1,070	1,330	1,620	1,510	990	960	1,000	522	358
18	386	1,010	1,010	990	1,280	1,510	1,460	960	1,240	777	723	419
19	375	1,060	833	970	1,290	1,460	1,400	940	1,100	786	732	814
20	375	842	842	960	1,300	1,460	1,400	950	871	673	590	522
21	358	723	862	940	1,220	1,400	1,910	1,000	833	665	597	454
22	358	673	1,230	910	1,200	1,460	2,810	920	1,070	657	542	430
23	348	625	1,100	920	2,470	1,320	1,790	930	1,090	960	510	402
24	430	604	1,730	910	2,400	1,340	1,620	960	1,290	732	490	402
25	496	611	4,610	890	1,850	1,320	1,510	1,070	960	649	484	397
26	466	1,150	4,440	960	1,680	1,240	1,400	1,010	741	611	478	386
27	419	1,240	2,600	990	1,510	1,230	1,370	871	842	604	542	386
28	408	824	4,610	960	1,370	1,190	1,330	950	786	548	611	386
29	392	723	4,780	1,070	-------	1,160	1,300	970	714	542	536	380
30	375	741	2,810	1,110	-------	1,190	1,360	1,270	705	532	503	375
31	419	-------	2,340	1,230	-------	1,790	-------	980	-------	824	641	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	795	320	410	0.77	0.89
November	2,400	348	750	1.42	1.58
December	4,780	536	1,660	3.13	3.61
January	1,970	890	1,150	2.17	2.50
February	2,740	890	1,410	2.66	2.77
March	3,950	1,160	1,720	3.25	3.75
April	2,810	1,300	1,670	3.15	3.51
May	1,970	871	1,130	2.13	2.46
June	1,460	705	994	1.88	2.10
July	1,210	542	765	1.44	1.66
August	1,120	478	663	1.25	1.44
September	814	358	476	.898	1.00
The year	4,780	320	1,060	2.00	27.27

EVAPORATION AT PARKSVILLE, TENN.

LOCATION.—Floating evaporation pan, 3 feet deep and 3 feet square, on Ocoee Lake 20 feet from right shore, and 500 feet above Dam No. 1 of Tennessee Electric Power Co. at Parksville, Polk County. Altitude, 825 feet above mean sea level.

RECORDS AVAILABLE.—November, 1924, to September, 1927.

REMARKS.—Evaporation is measured with metal cups of such volume that one cupful is equivalent to 0.01 inch depth of pan. The rainfall is measured by a standard United States Weather Bureau gage on top of dam. Records furnished by Tennessee Electric Power Co.

Monthly evaporation, 1926–27

Month	Rainfall	Mean temperature	Evaporation	Month	Rainfall	Mean temperature	Evaporation
	Inches	°*F.*	*Inches*		*Inches*	°*F.*	*Inches*
October	1.57	59.3	4.33	May	2.04	68.3	[a] 4.00
November	3.83	45.4	4.37	June	10.13	72.4	[b] 4.63
December	7.86	43.8	2.82	July	3.62	76.8	6.88
January	1.89	41.9	2.94	August	1.94	73.4	5.84
February	3.82	51.0	2.59	September	1.07	72.6	6.46
March	4.42	51.4	3.19				
April	4.70	63.0	3.79	The year	46.89	59.9	51.84

[a] Evaporation pan sunk May 19; evaporation for May 19–31 estimated at 0.13 inch a day.
[b] Evaporation June 1–16 estimated at 0.13 inch a day.

OCOEE RIVER AT PARKSVILLE, TENN.

LOCATION.—Water-stage recorder 1,500 feet downstream from dam and power plant No. 1 of Tennessee Electric Power Co. at Parksville, Polk County. Zero of gage is 717.58 feet above mean sea level.

DRAINAGE AREA.—600 square miles

RECORDS AVAILABLE.—January, 1911, to September, 1916; March, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,500 second-feet December 28 (gage height, 12.6 feet); minimum, 8 second-feet October 4 (gage height, 2.52 feet).

1911–1916, 1921–1927: Maximum discharge, 17,000 second-feet July 10, 1916 (gage height, 15.75 feet); minimum mean daily discharge, 6 second-feet October 28, 1925 (gage height, 2.40 feet).

REMARKS.—Records good. Very great diurnal fluctuation caused by operation of power plant No. 1.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	459	208	1,820	1,600	1,630	1,600	1,980	96	1,500	1,860	364	1,030
2	65	482	1,740	1,400	1,650	1,430	1,910	1,880	1,410	548	661	955
3	12	213	1,690	2,160	1,760	1,530	1,190	1,840	1,760	83	731	463
4	266	566	720	1,310	1,660	1,450	1,870	1,670	768	30	712	30
5	552	667	36	1,390	883	1,490	1,700	1,730	40	818	1,180	718
6	506	278	1,660	1,280	99	1,300	1,850	1,700	1,080	663	710	598
7	371	45	1,750	1,370	1,510	2,400	1,700	626	916	713	65	631
8	392	665	1,600	2,780	2,010	7,270	1,560	65	1,040	888	1,120	1,090
9	133	736	1,440	124	1,990	6,700	946	1,480	980	468	1,460	1,070
10	322	1,140	1,600	982	1,740	4,080	3,020	1,600	811	80	928	409
11	128	1,440	513	963	1,850	2,500	4,560	1,660	270	1,060	872	40
12	512	782	118	1,410	954	2,410	2,370	1,710	110	1,150	654	686
13	194	474	1,760	1,660	65	2,070	1,810	2,010	815	986	417	1,090
14	215	54	1,920	1,210	1,510	2,580	1,930	1,680	1,440	1,250	68	127
15	168	1,500	1,930	294	1,460	2,490	1,760	64	1,940	1,180	789	1,060
16	81	794	1,820	131	1,600	1,600	1,740	1,720	1,960	646	1,090	1,150
17	56	1,360	1,770	1,880	1,430	1,940	727	1,790	1,700	147	1,270	451
18	145	1,700	719	1,550	1,520	1,750	2,180	1,670	1,890	1,040	916	247
19	180	1,500	36	1,780	932	1,030	1,900	1,340	65	1,190	904	409
20	220	802	1,910	1,830	284	1,870	2,060	1,250	1,290	1,280	256	228
21	234	58	1,720	1,670	1,450	2,120	2,060	401	1,350	1,300	65	362
22	270	1,650	1,670	1,470	1,630	1,600	4,070	47	1,290	1,370	956	707
23	121	1,630	1,620	174	2,120	1,540	1,550	1,190	1,220	251	950	420
24	77	1,690	1,620	1,810	2,490	1,660	1,210	1,230	1,110	105	1,140	83
25	225	100	71	1,770	2,210	1,510	2,220	1,370	628	876	1,150	48
26	239	966	3,350	2,020	1,580	853	1,880	1,270	65	700	1,240	953
27	160	378	2,650	1,940	1,500	131	1,930	1,160	1,910	655	726	1,380
28	248	80	6,980	1,930	2,080	1,460	1,960	616	1,320	1,170	60	1,530
29	309	1,650	8,620	678	-------	1,550	1,930	40	1,400	1,630	1,160	1,360
30	152	1,690	3,520	160	-------	1,540	1,390	802	1,980	958	1,200	1,040
31	63	-------	2,650	1,490	-------	1,500	-------	1,280	-------	48	1,070	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	552	12	228	0.380	0.44
November	1,700	45	843	1.40	1.56
December	8,620	36	1,970	3.28	3.78
January	2,780	124	1,360	2.27	2.62
February	2,490	65	1,490	2.48	2.58
March	7,270	131	2,100	3.50	4.04
April	4,560	727	1,970	3.28	3.66
May	2,010	40	1,190	1.98	2.23
June	1,980	40	1,140	1.90	2.12
July	1,860	30	811	1.35	1.56
August	1,460	60	803	1.34	1.54
September	1,530	30	679	1.13	1.26
The year	8,620	12	1,210	2.02	27.44

SEQUATCHIE RIVER NEAR WHITWELL, TENN.

LOCATION.—Staff gage at highway bridge on Nashville branch of Dixie Highway 2 miles east of Whitwell, Marion County. Zero of gage is 632.30 feet above mean sea level.

DRAINAGE AREA.—389 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,200 second-feet December 26 (gage height, 15.3 feet); minimum, 50 second-feet several days in September (gage height, 1.1 feet).

1920–1927: Maximum discharge, 11,800 second-feet March 2, 1922 (gage height, 15.5 feet); minimum, 19 second-feet numerous days in September, 1925 (gage height, 0.73 foot).

REMARKS.—Records fair. Two small mills are situated above the gage, but as they have little or no storage, regulation is negligible.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	80	1,060	2,860	2,380	1,220	1,740	495	180	95	180	65
2	95	80	900	2,140	1,980	1,340	1,500	425	180	115	320	65
3	80	80	740	1,780	1,900	1,620	1,340	425	155	290	155	65
4	80	80	635	1,540	1,660	1,060	1,020	355	155	205	155	50
5	80	80	565	1,220	1,340	1,220	900	320	180	135	135	65
6	80	80	495	940	1,260	1,260	1,780	460	135	95	390	50
7	80	80	425	820	1,140	1,380	1,580	565	155	115	180	50
8	80	80	390	705	1,220	2,260	1,220	495	115	80	135	65
9	80	115	530	635	1,220	3,300	1,580	390	115	80	155	50
10	80	390	2,900	635	1,140	5,390	2,940	355	135	95	115	65
11	80	290	2,020	565	980	3,860	5,390	355	115	65	155	50
12	80	230	1,500	530	940	2,140	3,590	290	355	80	205	50
13	80	180	4,120	495	1,340	1,660	3,180	320	320	65	205	65
14	80	135	4,600	425	3,500	2,940	2,420	290	460	65	205	50
15	80	320	3,020	460	3,100	3,610	1,780	260	355	80	155	65
16	80	3,690	1,860	460	2,220	3,020	1,420	230	290	95	155	50
17	80	1,940	1,300	425	1,620	2,140	1,300	180	355	95	135	50
18	80	1,140	1,020	425	2,140	1,580	1,180	180	290	80	135	65
19	80	1,100	820	390	2,780	1,260	1,020	155	290	65	155	65
20	80	820	705	425	2,340	1,220	860	155	320	80	135	50
21	80	635	980	425	1,860	1,020	820	180	290	65	135	50
22	80	495	3,180	1,500	1,380	940	900	135	320	80	95	50
23	80	425	3,420	1,660	1,580	780	1,260	155	260	135	80	50
24	80	355	3,460	1,220	5,740	740	1,140	135	260	115	95	50
25	80	355	6,750	1,100	5,080	705	900	135	260	115	65	50
26	80	425	11,200	980	2,540	670	820	155	205	80	80	50
27	80	2,180	9,290	980	1,900	600	635	135	205	95	65	50
28	80	1,620	8,810	940	1,500	600	600	155	155	80	65	50
29	80	980	9,530	940	------	530	530	180	135	80	80	50
30	80	1,100	7,190	1,220	------	530	495	205	135	95	65	50
31	80	------	4,260	2,540	------	530	------	230	------	95	80	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	115	80	82	0.211	0.24
November	3,690	80	652	1.68	1.87
December	11,200	390	3,150	8.10	9.34
January	2,860	390	1,010	2.60	3.00
February	5,740	940	2,060	5.30	5.52
March	5,390	530	1,650	4.24	4.89
April	5,390	495	1,530	3.93	4.38
May	565	135	274	.704	.81
June	460	115	229	.589	.66
July	290	65	100	.257	.30
August	390	65	144	.370	.43
September	65	50	55	.141	.16
The year	11,200	50	906	2.33	31.60

ELK RIVER AT ESTILL SPRINGS, TENN.

LOCATION.—Water-stage recorder at highway bridge 400 feet downstream from Nashville, Chattanooga & St. Louis Railway bridge, 800 feet below Estill Springs hydroelectric plant, and three-fourths mile southeast of Estill Springs, Franklin County. Prior to October 1, 1926, staff gage 100 feet downstream was used. Zero of both gages is 850.25 feet above mean sea level.

DRAINAGE AREA.—263 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,800 second-feet December 26 (gage height, 16.4 feet); minimum, 46 second-feet September 28–30.

1920–1927: Maximum discharge, that of December 26, 1926; minimum, 10 second-feet October 9 and 10, 1925.

REMARKS.—Records good for low and medium stages, except those for periods of estimated discharge; others fair. Discharge estimated October 1–5, April 10–16, and May 14–21. Large diurnal fluctuation during low water caused by operation of power plant 800 feet above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		114	710	1,520	1,860	870	3,230	372	132	82	110	66
2		91	566	1,240	1,720	1,270	2,000	352	135	96	84	71
3	100	72	480	1,060	1,860	1,040	1,180	292	135	52	82	67
4		66	396	952	1,460	898	925	273	162	76	148	50
5		64	332	845	1,150	845	1,090	259	86	84	90	67
6	168	80	310	745	1,520	845	1,620	324	130	76	112	67
7	74	61	247	670	1,270	1,040	1,180	324	94	76	66	66
8	80	70	244	620	1,090	2,070	925	304	78	69	84	64
9	83	241	735	557	1,010	2,910	1,120	320	105	73	156	60
10	62	316	2,060	552	898	3,480	3,250	276	100	73	86	56
11	76	196	1,850	508	870	2,220	5,100	276	100	82	112	48
12	72	146	1,230	476	898	1,400	7,000	234	96	80	360	67
13	66	117	2,860	454	1,490	1,330	6,900	242	94	82	159	56
14	67	102	3,090	462	2,140	2,590	5,200		105	64	96	48
15	70	271	1,990	476	1,720	2,360	2,250		108	67	168	62
16	62	998	1,110	364	1,210	1,560	1,450		90	73	102	47
17	51	710	810	356	1,010	1,150	1,270	200	88	80	120	53
18	69	520	685	368	1,790	980	1,060		153	189	186	47
19	72	416	566	384	2,360	898	925		69	92	135	47
20	58	340	512	368	1,790	845	820		100	78	142	47
21	56	238	970	364	1,270	770	745		100	84	82	47
22	53	247	1,850	1,240	1,060	695	795	165	138	140	84	47
23	56	217	1,520	952	2,000	620	670	162	94	270	102	46
24	55	182	2,640	1,210	3,150	575	598	148	128	94	76	46
25	66	176	8,970	1,090	1,860	575	557	168	118	86	75	46
26	64	296	13,500	1,010	1,330	566	508	180	73	75	75	46
27	62	785	6,270	952	1,090	526	490	165	94	60	75	46
28	59	735	6,160	870	898	485	472	192	96	69	52	46
29	53	561	8,450	1,040	------	412	412	132	80	71	76	46
30	58	785	4,490	1,400	------	420	384	100	94	66	73	46
31	99	------	2,140	2,440	------	1,790	------	142	------	59	66	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	168	51	74.5	0.283	0.33
November	998	61	307	1.17	1.30
December	13,500	244	2,510	9.54	11.00
January	2,440	356	824	3.13	3.61
February	3,150	870	1,490	5.67	5.90
March	3,480	412	1,230	4.68	5.40
April	7,000	384	1,800	6.84	7.63
May	372	100	226	.859	.99
June	162	69	106	.403	.45
July	270	52	87.7	.333	.38
August	360	52	111	.422	.49
September	71	46	53.9	.205	.22
The year	13,500	46	731	2.78	37.71

ELK RIVER NEAR FAYETTEVILLE, TENN.

LOCATION.—Water-stage recorder at dam and power house of Southern Cities Power Co. 2 miles southwest of Fayetteville, Lincoln County. Zero of gage is 637.67 feet above mean sea level.

DRAINAGE AREA.—857 square miles.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 34,900 second-feet December 28 (gage height, about 25.8 feet); minimum mean daily discharge, 152 second-feet September 21 and 23 (gage height, 1.39 feet).

1925–1927: Maximum and minimum discharge, same as given above.

REMARKS.—Records good except December 26–31 and January 8–15, for which discharge was estimated. Considerable diurnal fluctuation caused by operation of power plant just above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	250	367	2,270	5,630	5,230	2,660	6,510	1,140	715	367	475	241
2	241	318	1,840	3,630	4,680	3,350	5,710	1,110	655	429	429	244
3	235	293	1,450	3,000	4,220	3,280	3,420	1,060	620	645	411	238
4	244	279	1,220	2,530	3,780	2,600	2,400	1,000	575	605	485	244
5	545	250	1,060	2,200	3,070	2,270	2,340	1,030	560	388	411	244
6	384	241	920	1,960	2,660	2,600	2,460	1,200	565	380	367	235
7	359	226	815	1,720	3,070	3,280	2,600	1,200	570	375	318	265
8	321	343	1,080	1,550	3,420	5,470	2,080	1,080	530	351	393	256
9	272	2,140	5,070	1,400	3,000	10,100	3,280	1,000	495	335	1,330	238
10	247	892	4,520	1,250	2,600	9,880	8,590	1,080	475	324	540	223
11	262	740	4,300	1,150	2,270	7,690	14,600	1,030	465	355	490	223
12	265	590	5,470	1,050	2,200	4,750	24,600	920	447	343	429	214
13	272	505	9,310	1,000	4,300	6,110	24,100	865	495	406	635	205
14	250	429	7,870	1,000	5,230	6,110	15,100	1,000	525	402	575	205
15	265	1,510	5,870	1,000	4,600	5,870	6,510	975	595	307	665	214
16	259	1,480	3,850	1,030	3,560	4,680	4,380	840	585	335	416	211
17	208	1,720	2,600	1,000	2,790	3,420	3,780	840	500	332	442	192
18	235	1,900	2,080	1,030	4,450	2,860	3,210	765	525	1,200	715	175
19	217	1,330	1,840	975	5,390	2,660	2,720	740	495	515	565	172
20	190	1,080	1,600	1,080	4,910	2,340	2,340	715	490	515	510	168
21	205	920	4,000	3,490	3,630	2,200	2,080	665	495	375	384	152
22	229	790	6,350	2,530	3,000	1,960	2,020	665	690	335	375	158
23	232	715	4,680	2,790	6,990	1,780	1,840	665	575	475	307	152
24	200	635	11,400	3,000	6,670	1,660	1,720	655	515	490	307	175
25	300	595	22,700	2,720	5,870	1,600	1,540	740	465	367	332	198
26	247	1,780	28,100	2,600	3,780	1,480	1,450	690	475	335	276	185
27	253	1,720	31,700	2,340	2,930	1,420	1,330	635	470	300	272	180
28	253	1,720	34,900	2,140	2,400	1,330	1,280	615	393	286	247	182
29	232	3,210	28,100	2,200	-------	1,250	1,200	630	402	300	276	205
30	223	2,930	17,600	4,600	-------	1,200	1,200	615	384	293	223	220
31	429	-------	13,900	6,030	-------	4,080	-------	615	-------	530	268	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	545	190	269	0.314	0.36
November	3,210	226	1,050	1.23	1.37
December	34,900	815	8,660	10.10	11.64
January	6,030	975	2,250	2.63	3.03
February	6,990	2,200	3,950	4.61	4.80
March	10,100	1,200	3,610	4.21	4.85
April	24,600	1,200	5,210	6.08	6.78
May	1,200	615	864	1.01	1.16
June	715	384	525	.613	.68
July	1,200	286	419	.489	.56
August	1,330	223	447	.522	.60
September	265	152	207	.242	.27
The year	34,900	152	2,280	2.66	36.10

ELK RIVER NEAR ELKMONT, ALA.

LOCATION.—Chain gage on highway bridge 3 miles below the Louisville & Nashville Railroad bridge and 5 miles northwest of Elkmont, Limestone County. Zero of gage is 549.45 feet above mean sea level.

DRAINAGE AREA.—1,700 square miles.

RECORDS AVAILABLE.—July, 1904, to February, 1908; January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 42,000 second-feet December 28 (gage height, 28.2 feet, from high-water marks); minimum, 185 second-feet September 30 (gage height, 1.25 feet).

1904–1908, 1919–1927: Maximum discharge, that of December 28, 1926; minimum, 85 second-feet September 18–20, 1925 (gage height, 1.05 feet).

REMARKS.—Records good, except those estimated which are fair. Discharge estimated December 25–31 and April 13–15.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	385	900	5,790	25,200	11,000	5,250	10,700	2,010	895	575	940	300
2	325	900	4,420	12,600	9,360	7,160	9,360	1,770	1,040	575	648	328
3	298	685	3,190	6,070	8,260	6,340	6,070	1,660	850	508	508	328
4	270	488	2,520	4,420	7,440	5,520	4,010	1,500	895	648	648	328
5	2,010	450	2,260	3,880	6,340	4,420	4,970	1,440	808	610	648	415
6	1,550	355	1,660	3,600	5,930	5,660	4,700	2,260	808	445	575	385
7	770	355	1,660	3,330	6,070	6,200	4,010	2,650	808	445	508	385
8	685	605	2,260	2,780	5,930	11,800	3,460	2,010	765	475	475	445
9	488	6,620	11,600	2,780	5,520	19,200	5,520	1,770	685	475	3,880	328
10	355	3,050	11,300	2,520	4,970	19,500	13,700	2,520	648	445	2,260	300
11	325	1,770	7,990	2,260	4,150	15,400	19,800	2,390	648	385	1,380	228
12	450	1,440	10,000	2,010	3,880	10,200	23,300	1,770	610	475	895	228
13	450	1,130	19,200	2,010	8,810	21,000	35,000	1,550	575	415	725	228
14	488	990	16,200	2,010	8,940	25,800	32,000	2,010	808	575	1,080	275
15	385	5,520	11,400	1,770	8,530	20,700	14,000	1,770	808	475	895	250
16	325	4,420	7,710	1,770	8,120	9,900	11,000	1,500	808	475	765	228
17	325	4,420	5,250	1,660	6,620	7,440	9,080	1,280	725	508	540	250
18	270	5,790	3,880	1,550	8,260	5,250	7,160	1,280	610	508	1,770	275
19	355	4,970	3,330	1,770	8,940	6,070	5,790	1,130	685	895	940	250
20	325	2,780	3,600	1,660	8,940	4,700	4,700	1,080	685	648	765	228
21	270	2,260	7,440	11,000	6,890	4,150	4,560	1,040	940	575	610	228
22	245	1,890	18,300	11,000	5,790	3,740	3,880	988	1,380	508	508	228
23	325	1,550	11,300	7,160	13,100	3,600	3,460	988	1,330	808	475	205
24	355	1,380	21,300	9,360	17,300	3,330	3,050	895	940	575	445	205
25	325	1,330	34,000	7,440	11,600	2,780	2,780	1,280	850	475	445	250
26	565	4,420	37,000	6,620	7,710	2,520	2,520	1,280	725	445	415	228
27	450	4,010	39,000	5,520	6,070	2,390	2,260	988	725	415	355	228
28	418	3,050	41,000	4,970	4,700	2,260	2,130	940	648	355	355	228
29	355	8,530	37,000	4,840	-------	2,260	2,010	808	575	385	385	205
30	325	10,700	32,000	5,930	-------	2,260	2,520	808	575	540	385	185
31	990	-------	27,000	14,200	-------	2,520	-------	850	-------	1,380	355	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	2,010	245	499	0.294	0.34
November	10,700	355	2,890	1.70	1.90
December	41,000	1,660	14,200	8.35	9.63
January	25,200	1,550	5,600	3.29	3.79
February	17,300	3,880	7,830	4.61	4.80
March	25,800	2,260	8,040	4.73	5.45
April	35,000	2,010	8,580	5.05	5.63
May	2,650	808	1,490	.873	1.01
June	1,380	575	795	.463	.52
July	1,380	355	549	.323	.37
August	3,880	355	825	.485	.56
September	445	185	272	.160	.18
The year	41,000	185	4,280	2.52	34.18

SHOAL CREEK AT IRON CITY, TENN.

LOCATION.—Staff gage at Louisville & Nashville Railroad bridge a quarter of a mile east of Iron City, Lawrence County, and half a mile below mouth of Holly Creek. Zero of gage is 532.74 feet above mean sea level.

DRAINAGE AREA.—355 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, about 21,800 second-feet March 13 (gage height, 23.1 feet); minimum, 70 second-feet September 26.

1925–1927: Maximum discharge, that of March 13, 1927; minimum, 39 second-feet September 22, 1925 (gage height, 0.60 foot).

REMARKS.—Records below 3,000 second-feet, good; others, fair to poor. Some regulation caused by operation of power plant at Lawrenceburg.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	131	170	1,350	1,960	860	660	443	284	316	211	143
2	105	131	160	1,030	1,720	1,210	615	424	350	350	157	117
3	102	140	280	810	1,420	1,150	548	368	386	424	157	126
4	120	131	505	760	1,090	970	525	350	333	333	225	121
5	160	122	505	710	970	860	570	368	333	316	225	117
6	192	119	505	615	910	970	710	525	239	254	172	172
7	230	114	548	505	860	1,280	570	860	316	300	172	117
8	180	122	1,210	445	760	4,320	525	760	300	269	126	123
9	114	410	1,280	428	760	5,200	710	504	284	269	105	123
10	100	410	1,280	428	760	3,680	1,560	910	254	239	134	136
11	98	465	2,050	375	615	2,140	3,480	615	254	198	225	113
12	99	180	2,140	340	570	1,490	2,880	525	254	211	184	103
13	94	218	3,780	375	548	19,300	4,540	443	254	225	172	107
14	96	170	2,410	375	660	8,060	2,050	424	284	198	159	111
15	92	1,560	1,880	358	660	5,420	1,280	424	350	284	107	111
16	112	1,030	1,090	340	660	2,680	1,350	386	333	405	93	107
17	110	445	810	325	570	1,350	1,640	368	300	368	117	103
18	114	392	660	310	1,090	1,350	1,420	350	1,720	316	148	119
19	115	392	548	325	1,350	1,640	1,150	333	1,720	284	184	99
20	112	180	615	570	1,210	1,210	1,280	316	860	225	184	148
21	119	180	910	1,800	970	1,210	2,680	316	1,090	172	152	103
22	131	205	760	1,640	860	1,030	1,800	300	1,640	143	148	101
23	120	170	860	1,560	1,560	910	1,350	316	1,420	123	138	99
24	131	160	7,510	1,720	2,320	860	1,090	350	970	148	152	115
25	131	170	13,300	1,640	1,560	760	910	350	760	126	157	107
26	140	160	10,000	1,720	1,210	710	760	350	615	121	148	75
27	122	150	3,080	1,800	1,030	1,210	615	333	570	132	141	84
28	117	160	7,400	1,800	810	570	570	284	463	154	134	88
29	122	150	8,500	1,420	-------	570	548	269	386	152	136	84
30	120	170	5,970	2,590	-------	570	548	254	350	148	145	90
31	131	-------	1,880	2,590	-------	570	-------	239	-------	184	138	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	230	92	124	0.349	0.40
November	1,560	114	285	.803	.90
December	13,300	160	2,660	7.49	8.64
January	2,590	310	1,000	2.82	3.25
February	2,320	548	1,050	2.96	3.08
March	19,300	570	2,390	6.73	7.76
April	4,540	525	1,300	3.66	4.08
May	910	239	421	1.19	1.37
June	1,720	239	589	1.66	1.85
July	424	121	238	.670	.77
August	225	93	156	.439	.51
September	172	75	112	.315	.35
The year	19,300	75	863	2.43	32.96

BEAR CREEK AT BISHOP, ALA.

LOCATION.—Staff gage at highway bridge half a mile below Little Bear Creek and three-fourths mile southwest of Bishop, Colbert County. Zero of gage is 414.85 feet above mean sea level.

DRAINAGE AREA.—621 square miles.

RECORDS AVAILABLE.—August, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, about 21,400 second-feet December 26 (gage height, 27.0 feet, determined from high-water marks); minimum, 28 second-feet September 21 (gage height, 5.2 feet).

1926–27: Maximum and minimum discharge, same as above.

REMARKS.—Records fair, except for January 1–7, March 7, 8, March 24 to April 9, and on Sundays throughout the year, for which they are estimated and are poor.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	80	1,600	2,400	2,520	1,930	840	552	330	180	220	60
2	85	90	1,150	2,070	1,880	2,400	840	490	330	180	260	48
3	75	119	665	1,740	1,420	2,180	728	430	380	180	240	48
4	65	107	500	1,510	685	1,830	615	430	380	180	380	54
5	75	90	418	1,330	460	1,690	550	405	380	152	760	60
6	75	85	335	1,240	1,220	1,340	615	1,040	380	145	490	66
7	75	90	315	1,080	1,980	1,000	580	5,450	318	130	345	170
8	75	96	530	1,330	2,080	1,160	550	4,080	292	138	200	145
9	75	410	2,280	972	1,600	4,100	550	2,700	270	130	152	100
10	80	595	2,080	615	800	4,510	1,620	1,600	250	119	152	66
11	85	560	1,560	520	550	4,600	2,700	1,200	240	108	240	63
12	85	276	4,390	685	550	3,420	3,000	880	230	100	280	60
13	96	197	7,220	520	3,760	8,310	2,340	760	220	305	180	60
14	90	256	6,180	685	6,980	13,200	1,780	685	240	160	170	48
15	145	315	4,780	550	5,850	11,200	1,380	618	330	160	160	48
16	113	665	3,780	565	4,870	7,100	1,780	559	460	220	130	48
17	94	850	1,830	580	3,280	3,700	1,860	490	355	225	115	48
18	75	770	1,280	615	3,490	3,280	1,930	430	305	230	1,080	43
19	70	810	1,040	615	3,700	2,760	1,600	380	398	250	405	38
20	65	665	810	840	2,990	2,320	1,510	380	490	160	250	38
21	65	490	890	6,180	2,280	1,880	1,200	355	490	138	194	38
22	65	315	1,330	5,150	1,880	1,690	1,160	355	920	115	138	38
23	65	276	1,420	4,920	1,600	1,420	1,460	355	960	115	115	60
24	72	239	6,400	4,690	2,760	1,240	1,270	355	1,200	96	72	66
25	80	239	18,000	3,600	1,690	1,000	1,080	330	840	78	60	57
26	75	276	19,800	2,520	1,460	760	880	380	610	92	78	48
27	75	470	15,300	1,880	1,510	705	760	330	380	85	72	48
28	75	835	15,300	3,860	1,560	650	685	380	318	85	66	54
29	75	1,200	17,600	3,700	------	550	615	380	270	72	60	92
30	75	2,760	15,600	3,420	------	550	615	380	210	60	60	60
31	78	------	9,980	3,140	------	520	------	490	------	140	60	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	145	65	80.1	0.129	0.15
November	2,760	80	474	.763	.85
December	19,800	315	5,300	8.53	9.83
January	6,180	520	2,050	3.30	3.80
February	6,980	460	2,340	3.77	3.93
March	13,200	520	3,000	4.83	5.57
April	3,000	550	1,240	2.00	2.23
May	5,450	330	892	1.44	1.66
June	1,200	210	426	.686	.77
July	305	60	146	.235	.27
August	1,080	60	232	.374	.43
September	170	28	62.1	.100	.11
The year	19,800	28	1,350	2.17	29.60

DUCK RIVER AT NORMANDY, TENN.

LOCATION.—Staff gage at highway bridge half a mile north of Normandy, Bedford County. Zero of gage is 785.47 feet above mean sea level.

DRAINAGE AREA.—214 square miles.

RECORDS AVAILABLE.—December, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,100 second-feet December 25 (gage height, 14.0 feet); minimum, 60 second-feet several days in October and November (gage height, 0.70 foot).

1920–1927: Maximum discharge, that of December 25, 1926; minimum, 45 second-feet July 30 to October 3 and October 5–7, 1925 (gage height, 0.6 foot).

REMARKS.—Records, below 5,000 second-feet, good; others fair. Gage not read on Sundays; discharge interpolated. Operation of Manchester hydroelectric plant, 15 miles upstream, causes some diurnal fluctuation during low water. Storage capacity, however, is small; therefore no great error in records results from regulation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	80	615	830	1,030	470	2,310	345	175	125	790	77
2	60	80	405	610	1,080	1,230	1,180	345	175	125	270	77
3	60	60	315	540	1,340	790	860	315	175	132	128	140
4	60	60	235	505	1,080	610	540	285	175	138	117	108
5	140	60	222	470	645	470	505	270	175	125	117	77
6	130	60	210	405	700	505	1,130	405	175	125	117	77
7	80	60	160	375	750	540	680	610	175	125	107	77
8	80	60	160	345	790	1,280	505	490	175	115	97	77
9	80	315	375	330	610	2,000	470	375	168	105	97	77
10	80	210	1,230	315	505	2,000	9,100	375	162	96	97	73
11	80	120	685	315	435	750	4,310	470	162	87	97	73
12	80	120	1,460	285	435	830	2,230	375	166	87	97	73
13	60	120	2,230	255	860	790	3,950	315	170	87	97	69
14	60	218	1,400	285	1,280	1,650	1,520	375	162	97	142	67
15	60	315	685	285	830	1,080	990	360	162	97	188	65
16	60	210	495	285	575	750	870	345	175	128	117	62
17	60	140	375	285	505	610	890	300	162	146	117	62
18	60	120	315	225	790	540	910	255	162	165	330	62
19	60	100	288	225	1,180	470	715	225	156	117	225	62
20	60	90	260	285	790	505	610	225	150	97	165	62
21	60	125	1,460	1,280	645	470	540	225	150	87	141	62
22	60	160	4,400	2,070	575	470	540	225	225	87	117	62
23	60	140	1,580	950	3,500	405	470	225	188	128	97	62
24	80	140	3,410	1,860	2,960	375	440	188	175	108	97	62
25	100	130	9,300	1,230	1,180	435	405	225	225	87	97	62
26	80	120	5,400	950	830	405	375	200	188	87	87	62
27	80	235	1,650	750	670	375	345	188	150	87	77	62
28	70	228	5,600	610	505	345	345	175	138	87	77	62
29	60	222	5,800	645	-------	315	330	175	125	87	77	81
30	60	830	1,650	990	-------	300	345	175	125	87	77	81
31	70	-------	1,080	1,930	-------	750	-------	175	-------	440	77	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	140	60	72.9	0.341	0.39
November	830	60	164	.766	.85
December	9,300	160	1,720	8.04	9.27
January	2,070	225	668	3.12	3.60
February	3,500	435	967	4.52	4.71
March	2,000	300	726	3.39	3.91
April	9,100	330	1,280	5.98	6.67
May	610	175	298	1.39	1.60
June	225	125	168	.785	.88
July	440	87	119	.556	.64
August	790	77	146	.682	.79
September	140	62	72.5	.339	.38
The year	9,300	60	532	2.49	33.69

DUCK RIVER AT COLUMBIA, TENN.

LOCATION.—Water-stage recorder at highway bridge two blocks north of the public square at Columbia, Maury County. Zero of gage is 577.78 feet above mean sea level.

DRAINAGE AREA.—1,210 square miles.

RECORDS AVAILABLE.—October, 1904, to December, 1908; April, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 35,900 second-feet December 26 (gage height, 35.4 feet); minimum, 2.3 second-feet, when power plant was shut down, July 9 (gage height, −1.11 feet).

1904–1908, 1920–1927: Maximum discharge, that of December 26, 1926; no flow October 22, 1922 (caused by power plant being shut down).

Maximum stage known, 45.6 feet March 30, 1902.

REMARKS.—Records above 250 second-feet good; others fair. Discharge estimated January 20–25, February 2–8, August 17–20, and September 11–17. Low-water flow is completely regulated at Mount Pleasant Electric Co.'s dam three-fourths mile above gage. There are three other small power dams above this station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	173	689	6,640	6,020	7,140	2,320	12,900	1,180	504	210	171	102
2	255	848	3,720	4,230	5,400	3,990	10,300	1,040	410	179	802	111
3	124	536	2,480	3,210	6,100	4,400	5,810	880	438	497	1,800	174
4	188	350	1,920	2,640	5,600	3,380	3,600	815	432	1,740	666	140
5	2,650	292	1,560	2,160	4,400	2,640	2,720	880	395	665	465	116
6	3,730	285	1,260	1,840	3,800	2,240	2,560	2,040	350	370	383	131
7	1,040	244	1,080	1,560	3,100	2,690	2,640	2,480	320	210	395	153
8	645	261	978	1,370	2,900	8,390	2,320	2,000	285	12	331	125
9	487	4,230	1,820	1,150	2,720	9,990	3,650	1,440	275	2.6	330	136
10	390	5,890	4,470	1,080	2,240	11,700	13,100	1,300	265	3.2	342	114
11	271	2,280	4,320	978	1,880	8,460	24,600	1,560	265	12	328	
12	284	1,370	3,860	880	1,640	5,390	30,300	1,480	260	167	402	
13	214	1,040	8,590	713	1,800	20,600	31,000	1,180	251	170	248	
14	219	809	9,190	737	3,360	19,300	21,100	1,120	280	182	464	
15	202	2,470	5,760	761	3,550	10,700	10,000	1,220	460	186	238	100
16	240	5,560	3,550	719	2,800	6,450	6,100	1,010	416	121	286	
17	197	3,720	2,400	665	2,240	4,330	7,070	848	340	159	250	
18	167	4,060	1,840	548	2,480	4,580	5,760	725	350	219	225	10
19	175	3,550	1,480	653	5,490	6,540	4,060	629	325	200	250	112
20	107	2,320	1,370	500	5,420	4,290	3,380	558	285	298	350	94
21	181	1,760	9,430	1,000	3,800	3,210	3,380	470	265	246	555	13
22	118	1,410	16,400	2,100	2,880	2,880	2,800	410	325	223	271	72
23	177	1,180	14,300	6,600	6,740	2,240	2,320	390	542	121	320	14
24	98	1,010	18,200	7,700	13,000	2,000	1,880	355	731	220	224	13
25	182	880	31,800	8,800	11,600	1,720	1,640	370	587	144	202	132
26	130	4,080	35,800	6,640	8,660	1,560	1,410	400	454	77	204	85
27	312	4,450	34,600	5,080	3,550	1,440	1,300	405	370	92	158	23
28	324	2,640	33,600	3,800	2,640	1,260	1,150	365	310	114	249	74
29	213	4,500	32,200	3,040	------	1,150	1,040	360	265	140	86	91
30	309	9,920	29,700	3,550	------	1,080	1,080	330	228	160	96	44
31	625	------	17,500	7,340	------	5,660	------	310	------	161	112	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,730	98	465	0.384	0.44
November	9,920	244	2,420	2.00	2.23
December	35,800	978	11,000	9.09	10.48
January	8,800	548	2,840	2.35	2.71
February	13,000	1,640	4,530	3.75	3.90
March	20,600	1,080	5,370	4.44	5.12
April	31,000	1,040	7,370	6.09	6.80
May	2,480	310	921	.761	.88
June	731	228	366	.303	.34
July	1,740	2.6	236	.195	.22
August	1,800	86	361	.298	.34
September	174	10	92.6	.077	.09
The year	35,800	2.6	3,000	2.48	33.55

DUCK RIVER AT CENTERVILLE, TENN.

LOCATION.—Staff gage at old county highway bridge half a mile from courthouse at Centerville, Hickman County. Prior to August 11, 1927, tape gage at same site was used. Zero of both gages is 451.33 feet above mean sea level.

DRAINAGE AREA.—2,070 square miles.

RECORDS AVAILABLE.—March, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 41,800 second-feet December 27 (gage height, 26.0 feet); minimum, 150 second-feet September 27 (gage height, 0.95 foot).

1919–1927: Maximum discharge, about 44,700 second-feet April 2, 1920 (gage height, 28.0 feet); minimum, 68 second-feet August 30, 1925.

REMARKS.—Records good except those for periods discharge was estimated, which are fair to poor. Discharge estimated December 25–31, February 6, 15–28, March 1–17, April 13, 14, and July 13–21. Some regulation at low water caused by operation of power plant at Columbia. Regulation greatly dampened by many long pools above Centerville.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	420	1,870	13,400	23,100	10,500	4,200	17,500	2,500	1,380	615	374	260
2	395	1,420	7,560	8,410	9,950	5,600	18,900	2,070	1,300	580	386	287
3	370	1,250	5,190	6,430	11,000	6,800	10,100	1,870	1,300	725	374	309
4	345	1,020	4,170	5,040	10,300	5,800	7,900	1,670	1,120	1,120	1,380	650
5	395	772	3,090	4,310	8,070	4,600	5,190	1,480	995	1,670	1,080	438
6	3,750	740	2,500	3,750	7,010	4,000	4,310	4,740	915	955	875	406
7	3,090	675	2,070	3,220	5,950	5,200	4,030	4,740	838	725	800	419
8	1,420	875	1,870	2,850	5,490	15,300	3,750	3,890	762	545	545	350
9	1,020	1,250	2,070	2,500	5,190	16,600	4,030	3,220	688	510	725	326
10	740	7,560	5,040	2,280	4,450	18,000	20,200	2,970	688	432	580	298
11	675	5,040	6,750	2,070	3,750	15,300	26,100	2,620	688	304	725	287
12	555	2,620	5,640	1,870	3,350	12,900	30,800	2,730	688	270	615	265
13	2,070	1,870	8,070	1,770	3,090	28,100	37,500	2,280	650	275	688	265
14	1,020	1,500	13,900	1,670	3,750	32,800	38,000	2,500	650	275	510	419
15	555	4,590	10,500	1,570	5,500	25,200	31,700	1,970	688	300	650	287
16	500	7,900	6,750	1,480	4,700	16,800	12,900	2,070	875	400	615	215
17	472	7,390	4,590	1,380	3,800	11,500	12,400	1,670	995	425	445	166
18	445	8,070	3,480	1,480	4,000	6,910	11,000	1,480	1,870	400	445	158
19	395	6,910	2,850	1,200	7,100	15,100	8,070	1,300	1,380	375	406	179
20	370	4,890	2,970	1,120	8,400	10,300	8,070	1,200	1,200	400	406	255
21	395	3,610	16,000	2,070	6,800	7,560	10,500	1,120	955	400	580	188
22	370	2,970	33,000	4,170	5,200	6,430	8,070	1,970	2,390	445	762	215
23	345	2,280	25,900	11,800	8,100	5,190	6,110	995	1,770	432	580	206
24	370	1,970	25,000	13,600	16,000	4,450	4,740	955	1,480	432	478	170
25	472	1,680	34,400	14,900	16,600	3,890	4,030	995	1,380	380	478	158
26	420	3,610	38,000	12,000	12,000	3,480	3,350	955	1,200	338	400	162
27	420	7,730	36,100	8,750	6,900	3,090	2,970	955	995	356	344	154
28	395	5,790	35,500	6,910	5,600	2,730	2,620	915	838	276	309	206
29	500	5,040	35,000	5,790	-------	2,390	2,280	875	762	255	326	419
30	740	12,000	34,200	5,340	-------	2,180	2,280	838	688	282	412	245
31	2,620	-------	28,100	9,780	-------	7,560	-------	800	-------	368	287	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	3,750	345	840	0.406	0.47
November	12,000	675	3,830	1.85	2.06
December	38,000	1,870	14,600	7.05	8.13
January	23,100	1,120	5,570	2.69	3.10
February	16,600	3,090	7,230	3.49	3.63
March	32,800	2,180	10,000	4.83	5.57
April	38,000	2,280	12,000	5.80	6.47
May	4,740	800	1,950	.942	1.09
June	2,390	650	1,070	.517	.58
July	1,670	255	492	.238	.27
August	1,380	287	567	.274	.32
September	650	154	279	.135	.15
The year	38,000	154	4,860	2.35	31.84

DUCK RIVER NEAR HURRICANE MILLS, TENN.

LOCATION.—Staff gage at county highway bridge on road between Waverly and Buffalo, 4 miles south of Hurricane Mills, Humphreys County, and 5 miles above mouth of Buffalo River. From June 2 to August 19, 1927, staff gage 200 feet upstream was used. Prior to June 2, 1927, a tape gage at bridge was used. Zero of all gages is 362.30 feet above mean sea level.

DRAINAGE AREA.—2,610 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 50,500 second-feet March 14 (gage height, 24.95 feet); minimum, 338 second-feet September 27 (gage height, 0.87 foot).

1925–1927: Maximum discharge, that of March 14, 1927; minimum, 185 second-feet September 11 and 12, 1925 (gage height, 0.44 foot).

REMARKS.—Records good except October 9–12, February 3, April 13–23, and May 24–28, for which periods discharge was estimated. Probably slight regulation during low water caused by operation of small power plants above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	495	3,350	14,200	38,000	11,000	5,270	21,200	3,470	1,720	1,120	640	520
2	465	2,210	10,200	15,600	12,300	5,550	22,400	3,230	1,280	1,040	670	482
3	375	1,930	6,770	10,200	12,800	6,940	16,500	2,880	1,920	1,040	670	580
4	342	1,570	5,140	8,630	13,200	6,780	9,880	2,560	1,820	900	1,540	520
5	990	1,480	4,150	7,270	10,600	5,700	7,440	2,340	1,630	2,120	1,720	732
6	5,790	1,230	3,460	6,150	9,340	4,990	6,000	5,270	1,450	1,540	1,360	640
7	4,630	1,150	2,810	5,130	8,800	6,780	5,410	5,850	1,360	1,200	1,120	640
8	1,930	1,070	2,710	4,200	7,950	20,600	5,130	5,410	1,280	1,040	2,120	580
9	1,500	1,230	3,130	3,470	7,440	21,600	6,620	4,590	1,120	900	3,230	580
10	1,200	4,750	5,790	2,890	6,300	21,900	20,200	4,460	1,120	900	1,720	640
11	1,000	6,770	7,360	2,780	5,270	20,600	27,600	4,200	1,040	732	1,450	580
12	800	3,790	7,060	2,450	4,720	20,200	35,900	3,710	1,040	670	1,360	520
13	1,570	2,810	8,110	2,340	4,330	37,500	48,700	3,230	1,200	580	1,040	465
14	1,750	2,210	13,300	2,230	4,330	50,500	49,200	3,590	1,120	550	1,280	410
15	1,230	2,510	13,600	2,120	5,700	43,700	42,200	3,350	1,120	610	970	580
16	592	8,430	9,090	1,920	5,550	29,200	16,100	2,890	1,120	865	1,040	465
17	840	8,430	6,350	1,820	4,720	18,900	15,400	2,670	3,000	970	830	410
18	730	8,110	4,880	1,820	4,590	10,600	13,600	2,340	3,110	900	865	410
19	695	7,810	4,150	1,820	6,150	18,400	10,200	2,120	3,000	765	830	382
20	660	6,070	3,790	2,780	8,980	15,400	10,200	1,920	2,450	765	700	382
21	560	5,010	39,800	6,300	8,290	14,700	13,000	1,720	2,120	765	830	410
22	560	3,910	43,700	5,850	6,460	10,400	12,600	1,630	2,780	830	1,200	410
23	528	2,610	38,000	14,700	6,150	8,290	10,200	1,540	3,350	798	1,040	382
24	660	2,610	35,900	16,500	14,500	6,780	8,290	1,500	2,560	700	765	382
25	730	2,510	42,400	17,700	18,400	5,700	6,460	1,500	2,450	670	700	355
26	730	2,410	46,600	15,800	16,500	5,130	5,410	1,450	2,020	610	700	344
27	695	7,660	43,700	11,600	9,160	4,460	4,720	1,400	1,820	580	640	338
28	660	7,060	43,500	9,160	8,290	3,950	4,200	1,400	1,540	580	580	410
29	625	5,270	43,700	7,610	------	3,590	3,710	1,360	1,280	520	580	520
30	730	10,500	43,700	6,940	------	3,230	3,470	1,360	1,200	520	550	610
31	3,570	------	41,400	7,440	------	9,520	------	1,280	------	640	520	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	5,790	342	1,210	0.464	0.53
November	10,500	1,070	4,220	1.62	1.81
December	46,600	2,710	19,500	7.39	8.52
January	38,000	1,820	7,850	3.01	3.47
February	18,400	4,330	8,640	3.31	3.45
March	50,500	3,230	14,400	5.36	18
April	49,200	3,470	15,400	5.90	6.58
May	5,850	1,280	2,780	1.07	1.23
June	3,350	1,040	1,800	.690	.77
July	2,120	520	852	.326	.38
August	3,260	520	1,070	.410	.47
September	732	338	489	.187	.21
The year	50,500	338	6,500	2.48	33.60

PINEY RIVER AT VERNON, TENN.

LOCATION.—Chain gage on highway bridge half a mile west of Vernon, Hickman County, 600 feet above Pretty Creek. Prior to August 30, 1927, tape gage at same site was used. Zero of both gages is 470.67 feet above mean sea level.

DRAINAGE AREA.—209 square miles.

RECORDS AVAILABLE.—July, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,200 second-feet December 21 (gage height, 16.5 feet); minimum, 66 second-feet October 4 (gage height, 1.00 foot).

1925–1927: Maximum discharge, that of December 21, 1926; minimum 48 second-feet September 8 and 9, 1925 (gage height, 0.88 foot).

REMARKS.—Records, October 1 to December 20 and April 21 to September 30, good; others poor. Possibly slight regulation due to operation of small milldam at Pinewood.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79	355	498	810	640	294	990	595	365	225	292	89
2	76	268	435	640	900	294	682	565	340	238	131	95
3	69	220	395	598	855	244	555	535	340	207	189	104
4	66	190	338	507	725	228	499	505	302	189	365	98
5	660	165	302	459	640	216	491	800	279	180	194	92
6	132	145	250	419	900	238	411	875	270	173	142	95
7	102	140	235	388	1,080	1,120	388	730	256	166	131	95
8	89	160	235	358	900	2,600	380	660	243	198	180	89
9	82	220	1,540	328	682	1,640	459	595	238	159	595	95
10	86	205	990	307	598	1,170	2,900	1,040	234	152	256	124
11	104	190	710	281	523	810	1,260	595	230	152	189	95
12	132	178	565	268	491	640	2,600	535	234	145	145	86
13	395	160	815	262	451	8,870	4,220	505	279	142	131	83
14	205	155	760	262	419	1,920	2,200	730	252	138	166	80
15	160	870	565	250	358	1,260	1,260	565	230	159	131	74
16	140	542	475	228	328	990	2,500	505	216	202	117	83
17	126	435	395	222	307	810	1,260	475	915	145	114	77
18	116	520	355	222	725	990	900	448	628	134	202	86
19	108	435	320	222	640	1,440	682	420	448	124	124	89
20	100	375	355	1,260	523	1,040	5,450	420	392	124	117	74
21	96	338	13,800	1,640	443	2,200	2,620	392	695	124	110	71
22	93	285	3,600	1,080	419	1,260	1,980	340	628	138	107	68
23	89	250	1,440	1,540	475	945	1,370	340	475	152	104	74
24	165	235	8,540	1,350	411	768	1,120	340	365	128	101	86
25	138	220	5,060	990	403	598	955	315	340	120	98	80
26	124	355	2,800	810	358	523	838	306	315	117	92	74
27	116	320	1,540	682	328	427	730	302	284	114	92	71
28	104	285	2,600	640	300	380	695	297	261	110	194	107
29	102	498	2,020	598	-------	350	660	288	243	110	86	114
30	132	565	2,200	855	-------	320	730	279	225	120	86	86
31	455	-------	990	768	-------	1,170	-------	505	-------	365	86	-------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	660	66	150	0.718	0.83
November	870	140	309	1.48	1.65
December	13,800	235	1,780	8.52	9.82
January	1,640	222	621	2.97	3.42
February	1,080	300	565	2.70	2.81
March	8,870	216	1,150	5.50	6.34
April	5,450	380	1,390	6.65	7.42
May	1,040	279	510	2.44	2.81
June	915	216	351	1.68	1.87
July	365	110	160	.766	.88
August	595	86	163	.780	.90
September	124	68	87.8	.420	.47
The year	13,800	66	604	2.89	39.22

BUFFALO RIVER NEAR FLATWOODS, TENN.

LOCATION.—Staff gage a quarter of a mile above bridge on Flatwoods-Linden road half a mile below mouth of Little Opossum Creek, and 1½ miles northwest of Flatwoods, Wayne County. Zero of gage is 513.47 feet above mean sea level.

DRAINAGE AREA.—439 square miles.

RECORDS AVAILABLE.—May, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 34,800 second-feet March 13 (gage height, 29.3 feet); minimum, 120 second-feet October 4.

1920–1927: Maximum discharge, that of March 13, 1927; minimum, 65 second-feet September 9, 1925.

REMARKS.—Records good, except those for extremely high stages which are fair.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	138	570	2,790	1,730	1,320	930	1,150	630	322	340	215	155
2	129	445	1,670	1,320	1,370	1,040	985	630	455	305	230	165
3	123	330	1,190	1,150	1,550	1,150	780	518	475	305	190	178
4	120	278	900	930	1,430	1,040	680	495	415	305	215	202
5	750	260	800	830	1,260	930	730	540	358	275	245	230
6	1,190	242	660	680	1,150	930	780	730	322	260	230	245
7	525	210	570	630	1,040	1,260	730	1,200	340	245	202	245
8	330	225	505	585	985	6,240	630	1,040	322	245	190	202
9	260	485	570	540	880	4,730	780	830	305	260	322	178
10	210	615	850	495	880	4,330	1,730	830	290	230	340	165
11	195	505	800	455	780	2,630	4,530	830	275	245	435	178
12	195	445	800	415	730	1,860	5,570	680	260	245	415	178
13	260	385	1,910	415	730	25,800	19,100	562	305	230	322	165
14	225	330	2,390	455	630	16,400	5,570	585	305	230	245	165
15	195	445	1,670	415	680	5,680	2,630	630	340	290	245	155
16	177	2,710	1,190	375	630	2,400	2,780	495	305	245	230	155
17	165	1,320	950	358	585	1,730	3,020	455	985	305	215	155
18	159	1,600	800	358	730	1,550	2,120	415	1,320	305	202	145
19	153	1,670	660	358	1,150	2,120	1,670	395	1,040	245	190	178
20	141	1,190	660	435	1,150	1,610	1,990	375	780	215	190	145
21	135	900	1,600	1,040	1,040	1,610	5,350	358	680	202	190	145
22	135	750	4,630	1,550	985	1,610	4,230	340	1,040	202	178	145
23	132	615	3,510	1,610	1,150	1,370	2,400	340	1,370	190	178	145
24	165	525	7,720	2,400	2,060	1,200	1,730	358	1,040	190	155	145
25	210	485	22,800	2,340	1,730	1,100	1,370	375	730	190	155	145
26	195	1,010	17,900	1,860	1,370	930	1,150	375	630	190	165	145
27	186	2,470	4,830	1,490	1,150	830	985	340	518	178	165	155
28	162	1,460	5,460	1,260	1,040	780	830	305	455	178	165	178
29	150	1,460	13,600	1,200	------	730	730	305	395	178	155	230
30	159	4,230	3,960	1,150	------	680	680	305	375	178	155	215
31	465	------	2,260	1,260	------	630	------	305	------	190	155	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	1,190	120	249	0.567	0.65
November	4,230	210	939	2.14	2.39
December	22,800	505	3,570	8.13	9.37
January	2,400	358	971	2.21	2.55
February	2,060	585	1,080	2.46	2.56
March	25,800	630	3,090	7.04	8.12
April	19,100	630	2,580	5.88	6.56
May	1,200	305	535	1.22	1.41
June	1,370	260	558	1.27	1.42
July	340	178	238	.542	.62
August	435	155	222	.506	.58
September	245	145	174	.396	.44
The year	25,800	120	1,190	2.71	36.67

CACHE RIVER BASIN

CACHE RIVER AT FORMAN, ILL.

LOCATION.—Chain gage in NE. ¼ sec. 31, T. 13 S., R. 3 E., on Chicago, Burlington & Quincy Railroad bridge at Forman 1 mile below Dutchman Creek.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

DRAINAGE AREA.—240 square miles.

EXTREMES.—Maximum discharge during year, 5,020 second-feet March 19 (gage height, 15.8 feet); minimum, 2.4 second-feet November 7 (gage height, 0.50 foot).

1922–1927: Maximum discharge, that of March 19, 1927; no flow on July 31 and August 1, 1923.

REMARKS.—Records fair except those for lowest stages, which are poor.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	12	200	355	1,660	68	1,130	750	1,220	515	152	26
2	9.0	8.1	123	381	1,500	58	2,010	650	1,960	304	199	20
3	8.1	5.7	48	449	1,430	48	2,160	515	2,060	254	83	20
4	12	5.7	30	407	1,360	38	2,110	455	2,110	189	38	23
5	12	4.4	20	368	1,320	46	2,060	535	2,060	136	23	29
6	9.0	3.8	15	316	1,040	58	2,010	890	1,920	107	18	63
7	7.2	2.4	14	268	860	128	1,960	1,040	1,700	83	14	128
8	6.4	7.2	12	222	800	209	1,960	1,260	1,360	63	14	161
9	5.7	18	20	180	650	390	2,060	1,660	1,070	63	20	144
10	15	36	34	141	515	199	2,060	2,010	775	54	18	63
11	38	77	24	107	390	114	2,060	2,110	555	46	7.0	38
12	123	46	21	91	317	725	2,110	2,010	405	35	7.0	29
13	107	32	16	74	278	495	2,280	1,920	390	32	4.0	23
14	91	20	13	99	254	950	2,580	1,830	375	29	575	20
15	48	91	10	99	242	950	3,180	1,780	360	32	700	20
16	30	190	10	88	242	920	3,680	1,580	242	495	600	16
17	18	268	9	74	220	775	3,500	1,130	170	700	535	14
18	15	222	9	103	242	950	3,100	980	317	650	495	14
19	12	180	9	292	278	5,020	2,580	750	220	345	435	12
20	10	123	14	550	242	4,320	2,220	555	170	179	405	10
21	9.0	91	34	1,060	220	3,020	2,010	475	189	114	78	12
22	8.1	48	77	2,380	199	2,650	1,960	375	1,070	152	63	14
23	7.2	34	141	4,220	189	2,280	1,780	535	2,330	152	58	12
24	14	21	99	4,040	161	2,110	1,540	700	2,220	220	54	14
25	32	38	123	3,500	136	1,740	1,290	920	2,060	121	42	14
26	48	80	180	3,020	114	1,780	1,070	2,010	2,010	63	42	12
27	36	123	141	2,620	95	2,390	830	1,220	1,920	42	35	12
28	24	141	170	2,500	83	2,110	625	1,220	1,400	29	29	128
29	14	180	316	2,170	------	1,100	475	1,070	1,100	26	26	242
30	11	316	421	2,070	------	920	600	980	775	20	23	405
31	15	------	355	1,880	------	750	------	920	------	58	23	------

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October	123	5.7	25.9	0.108	0.12
November	316	2.4	80.8	.337	.38
December	421	9.0	87.4	.364	.42
January	4,220	74	1,100	4.58	5.28
February	1,660	83	537	2.24	2.33
March	5,020	38	1,200	5.00	5.76
April	3,680	475	1,970	8.21	9.16
May	2,110	375	1,120	4.67	5.38
June	2,330	170	1,150	4.79	5.34
July	700	20	171	.712	.82
August	700	4.0	155	.646	.74
September	405	10	57.9	.241	.27
The year	5,020	2.4	637	2.65	36.00

MISCELLANEOUS DISCHARGE MEASUREMENTS

Discharge measurements of streams in the Ohio River Basin at points other than regular gaging stations are listed in the following table:

Miscellaneous discharge measurements in Ohio River Basin during the year ending September 30, 1927

Date	Stream	Tributary to—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Oct. 26	Ohio Canal	Tuscarawas River	Clinton, Ohio		14.5
Feb. 5	do	do	do		7.1
Mar. 17	do	do	do		27.7
June 30	do	do	do		17.5
Aug. 10	do	do	do		17.0
Oct. 26	do	do	Crystal Spring, Ohio		12.8
Dec. 1	do	do	do		17.8
Feb. 5	do	do	do		13.7
Mar. 16	do	do	do		2.8
Aug. 10	do	do	do		11.8
19	Elk Eye mill race	Muskingum River	McConnelsville, Ohio		39.7
Feb. 3	Boiling Spring	Reed Creek	20 feet below main spring near spring house near Max Meadows, Va.		2.7
3	do	do	At mouth near Max Meadows, Va.		4.6
Aug 25	Miami & Erie Canal	Miami River	Warren Street Bridge, Dayton, Ohio.		76.0
Apr. 27	do	do	Lindenwald, 1 mile south of Hamilton, Ohio.		37.0
May 12	do	do	do		38.3
July 22	do	do	do		44.6
Aug. 25	Bald River	Tellico River	Just below Bald River Falls and 50 feet above confluence with Tellico River, Tenn.		23.9
Sept. 29	Cove Creek	Tennessee River	Just above sink near Coal Creek, Tenn.		8.1
26	Richland Creek	do	Just above confluence with Morgan Creek, near Dayton, Tenn.		.18
26	Morgan Creek	Richland Creek	Just above confluence with Richland Creek, near Dayton, Tenn.		.07
Oct. 9	Hiwassee River	Tennessee River	At highway bridge near Appalachia, Tenn.	0.25	596
1	Ocoee River	Hiwassee River	Above power house near Emf, Tenn.	.86	2.69

INDEX